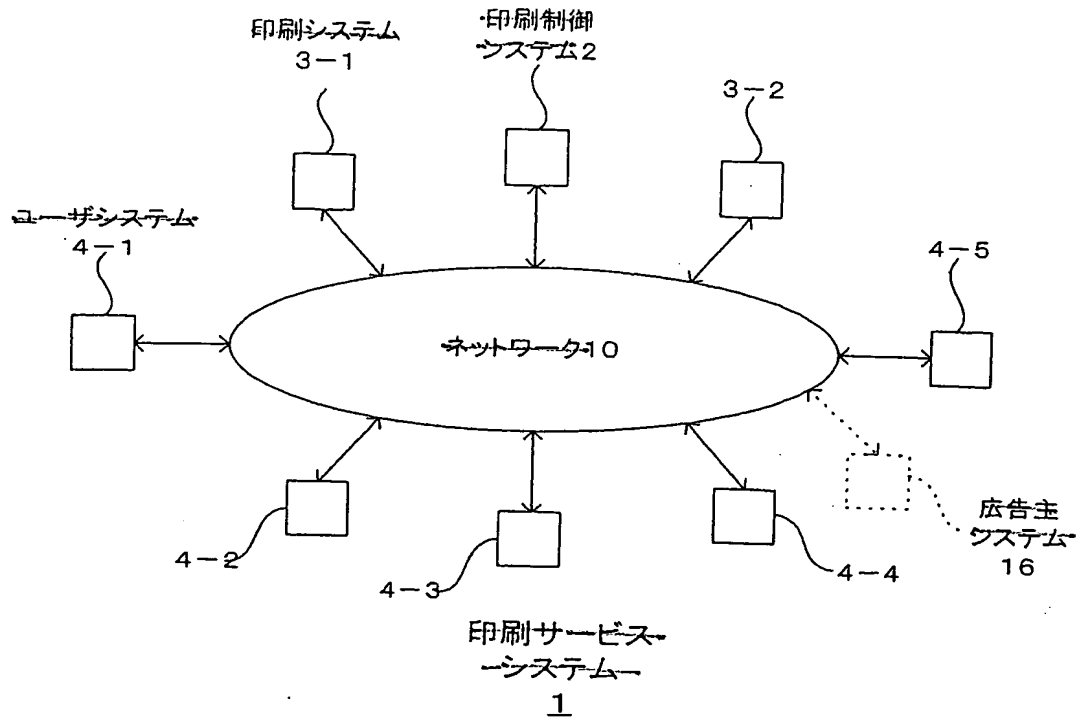


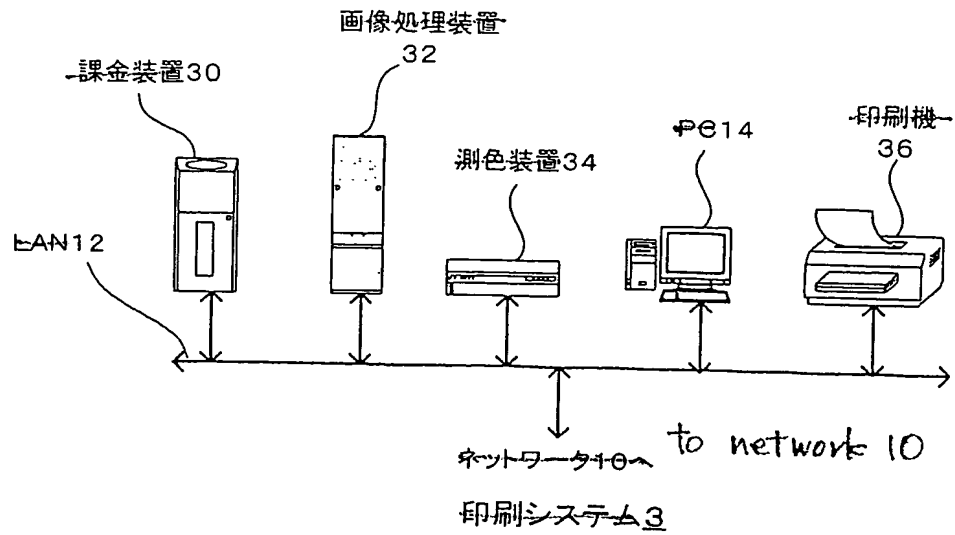
Fig. 1



-(図2)-

Fig. 2

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-(図3)- Fig. 3

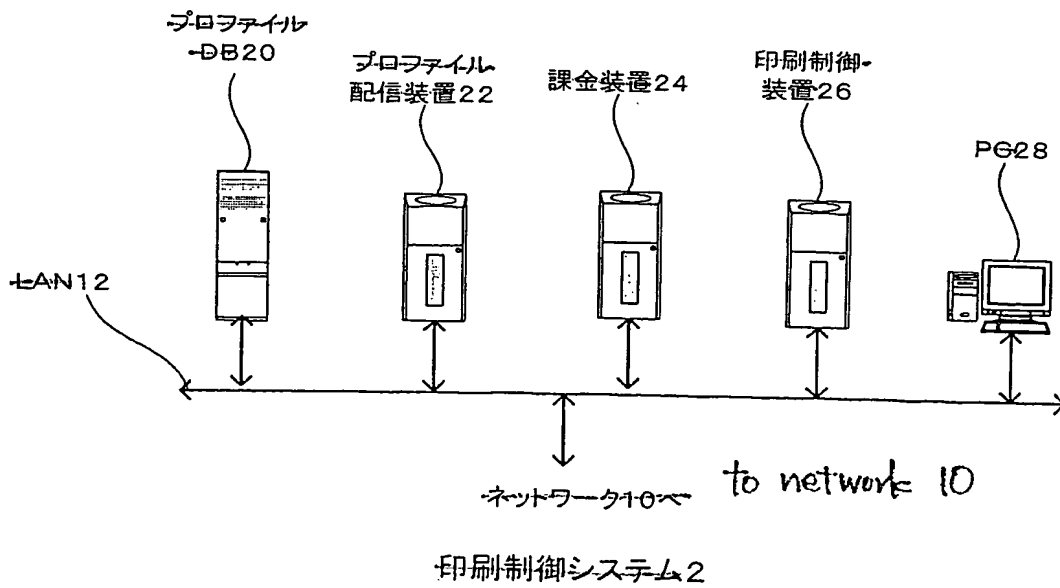
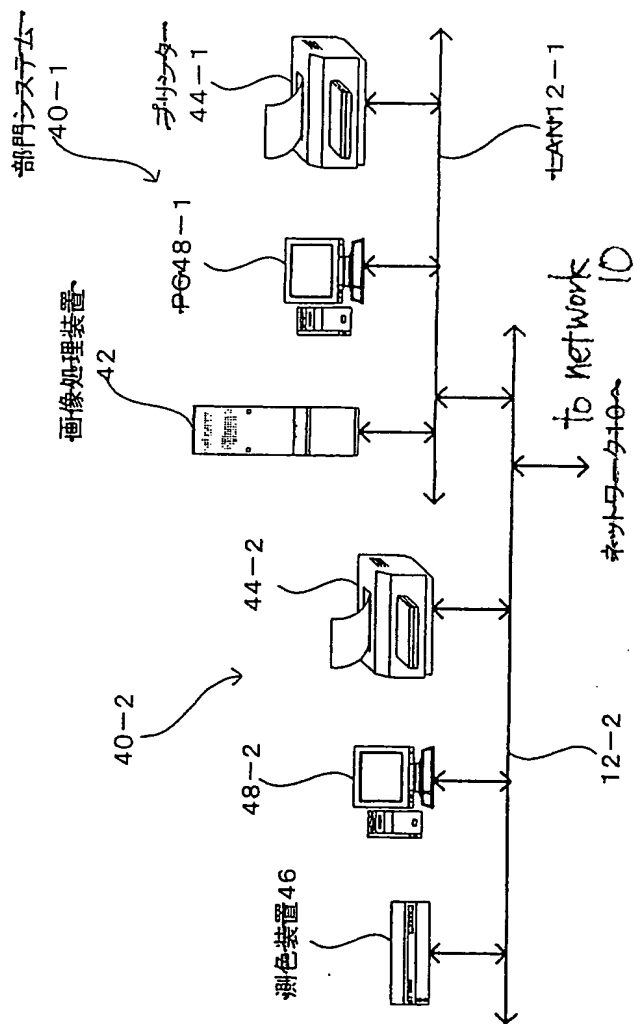


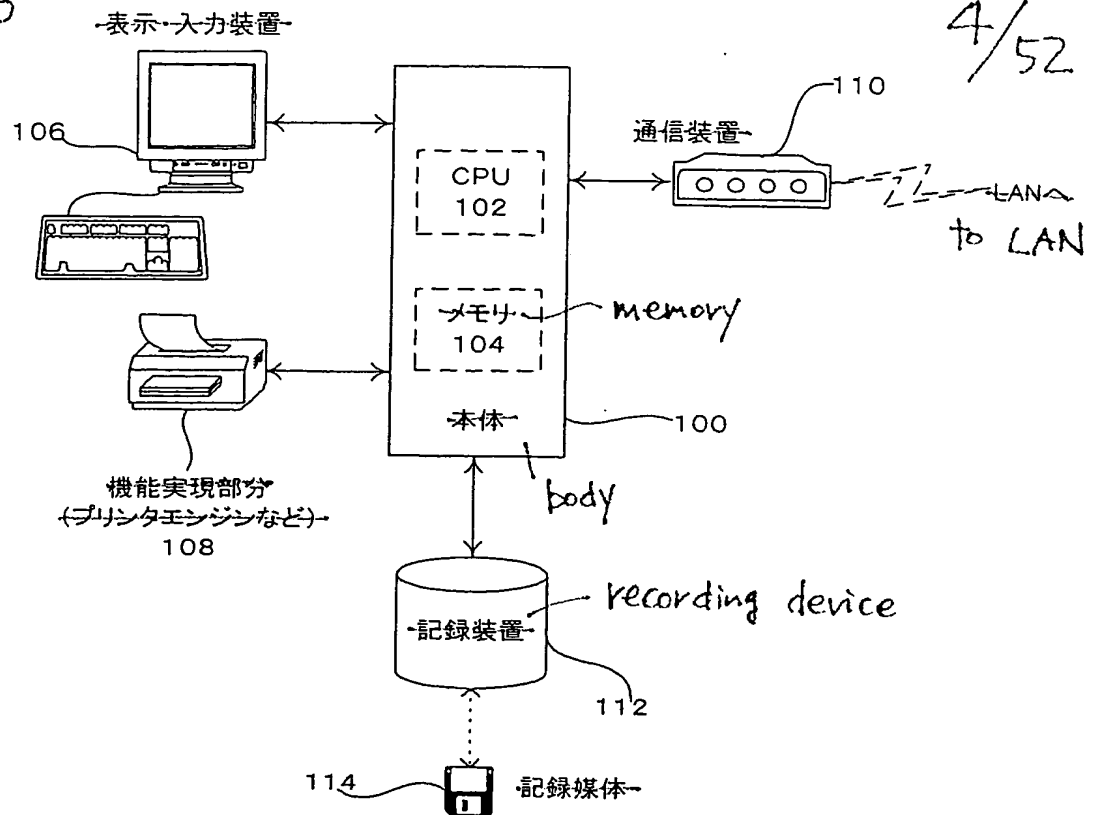
Fig. 4

【図4】



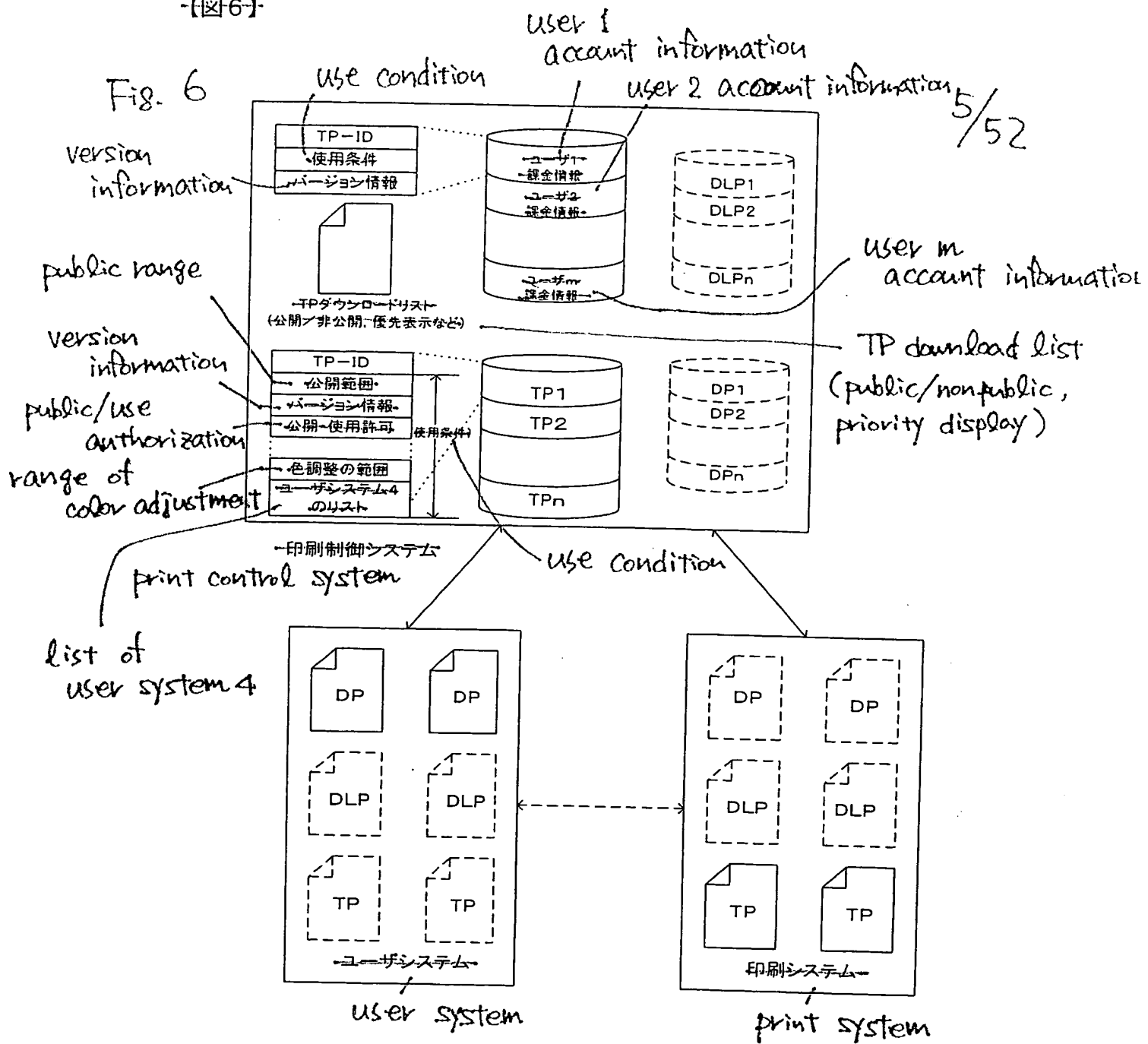
ネットワーク 4

Fig. 5



PG14, 28, 48, プロファイルDB20,
プロファイル配信装置22, 課金装置24, 30,
印刷制御装置26, 画像処理装置32, 42,
測色装置34, 46, 印刷機36, プリンタ44

Fig. 6



【図7】

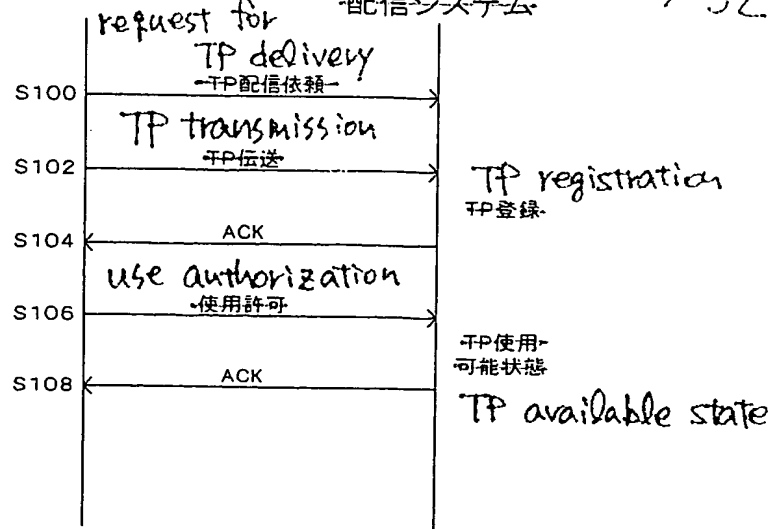
Fig. 7

user system
ユーザー
システム

print
system
印刷
システム

profile
delivery system
プロフィール
配信システム

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TP配信開始(S10)
TP delivery start

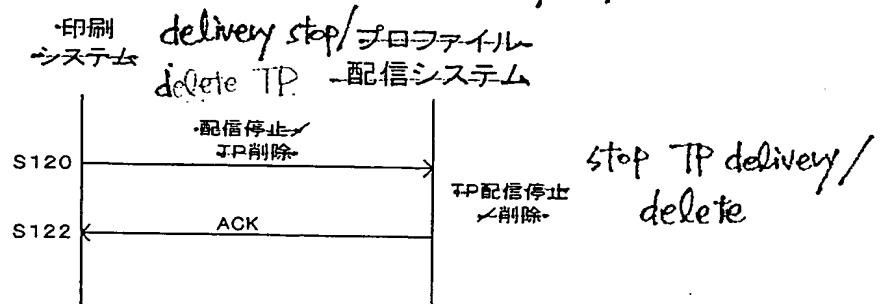
【図8】

Fig. 8

user system
ユーザー
システム

print
system
印刷
システム

profile
delivery system
プロフィール
配信システム



TP配信停止(S12)
TP delivery stop

Fig. 9

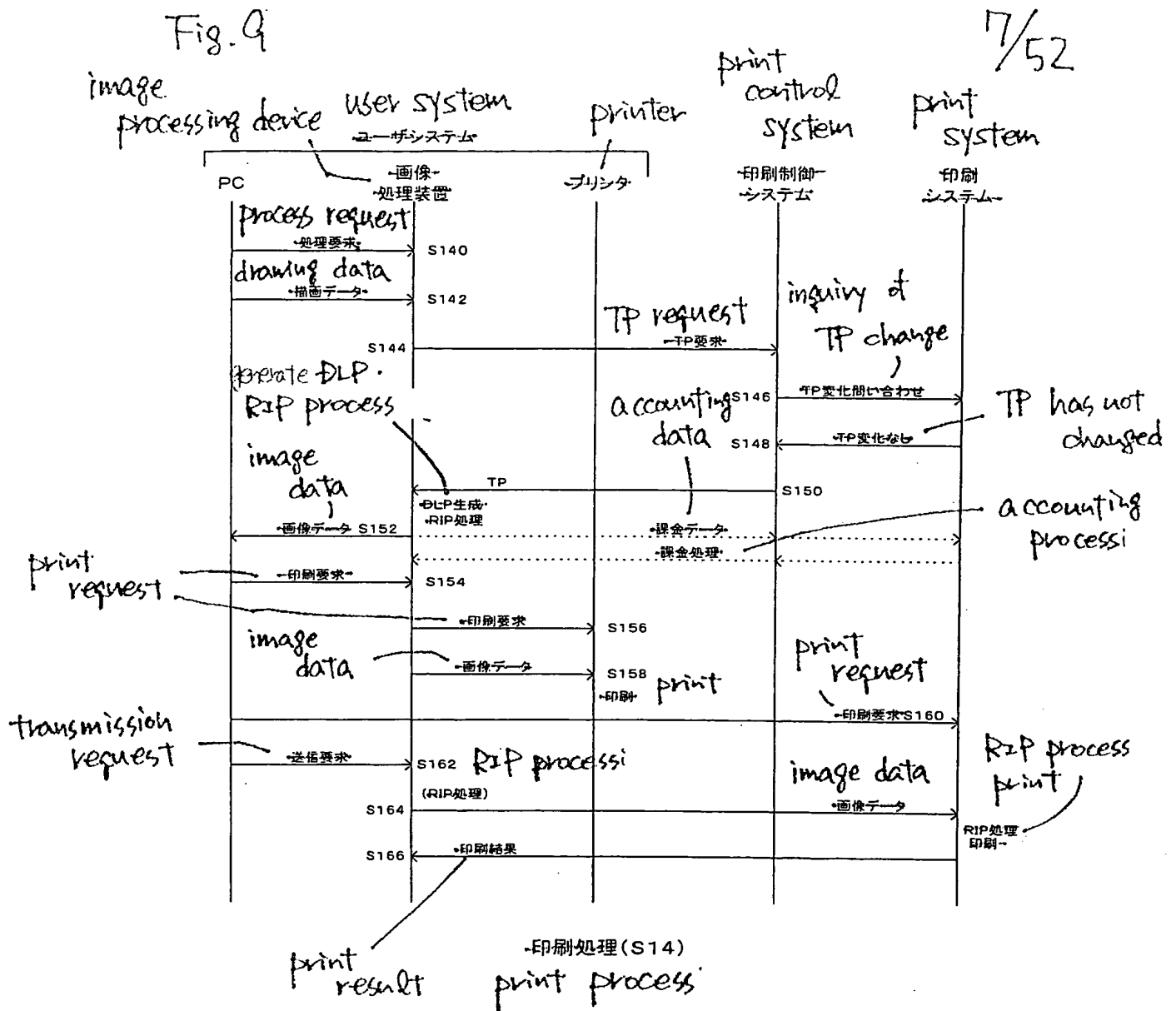
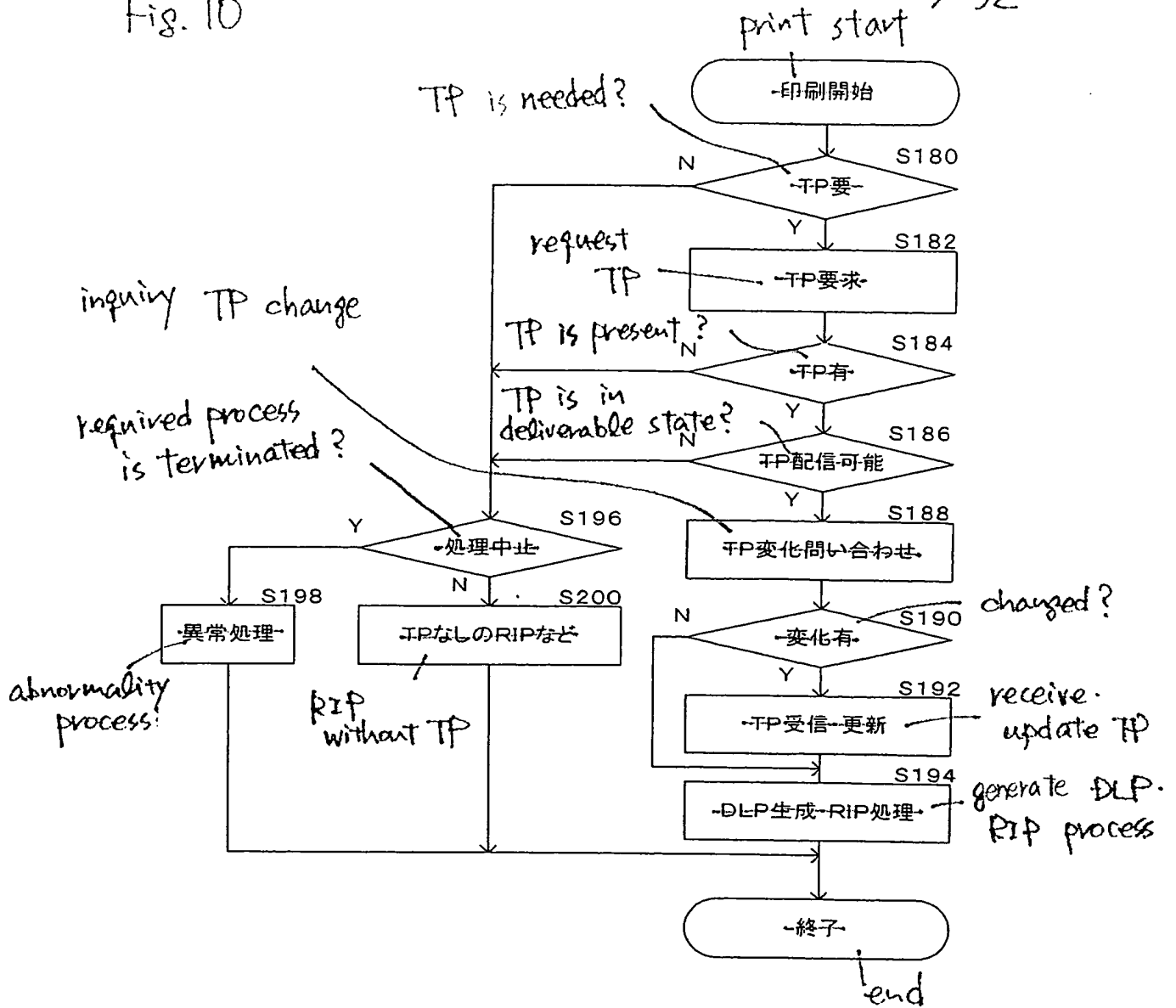


Fig. 10

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S18

Fig. 11

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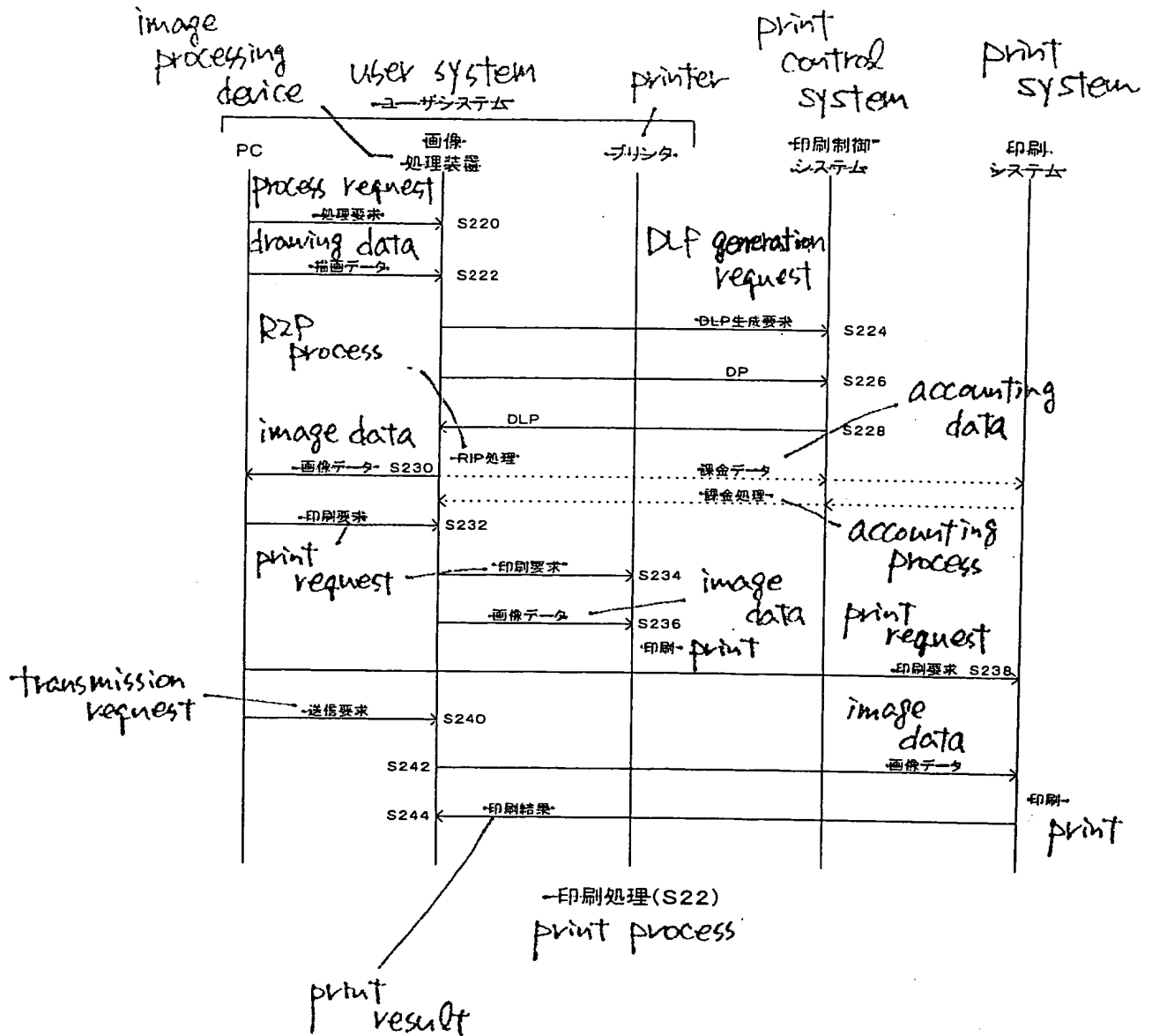
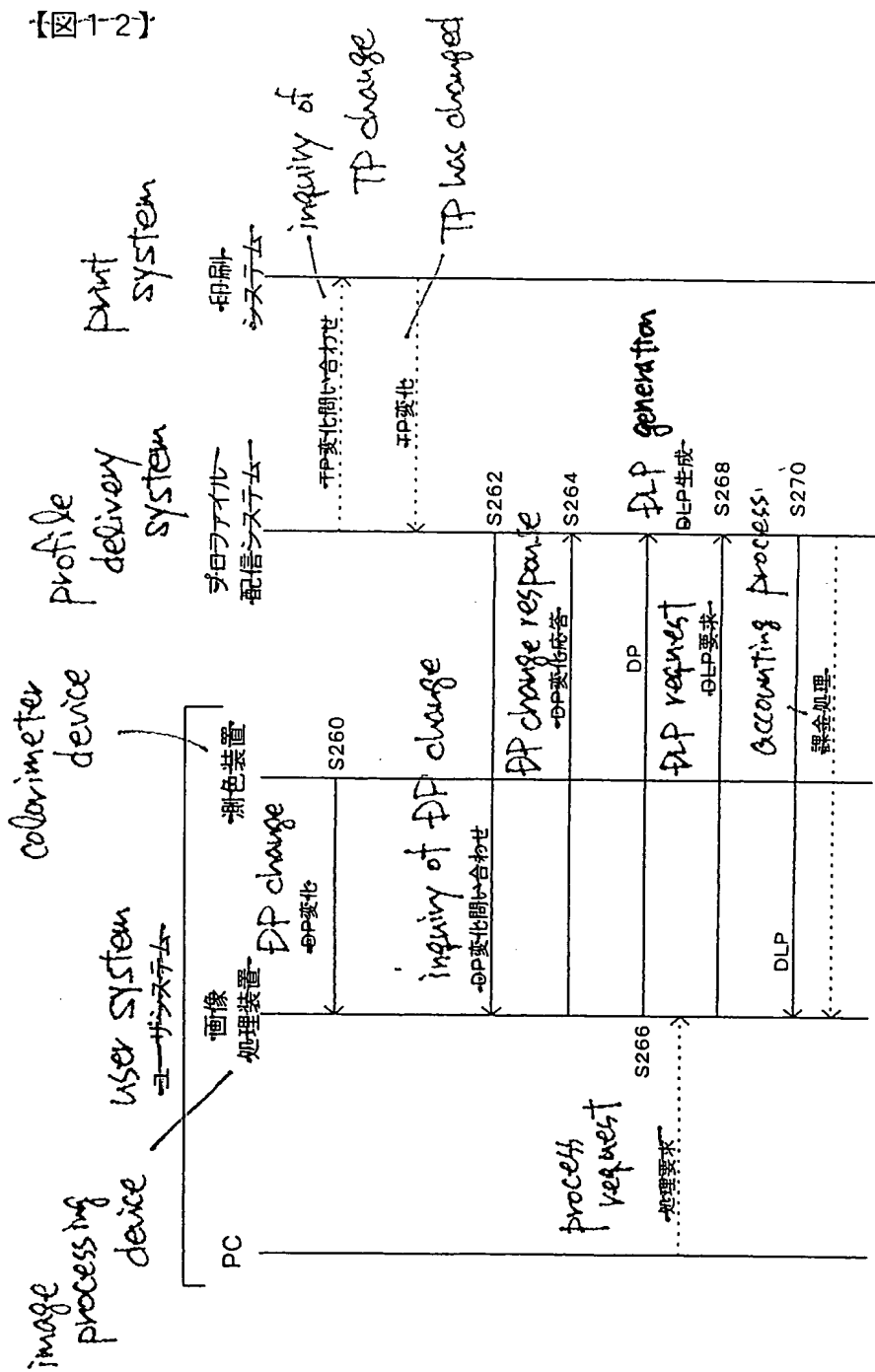


Fig. 12



-DLP自動生成処理(S26)

DLP automatic generation process:

Fig. 13

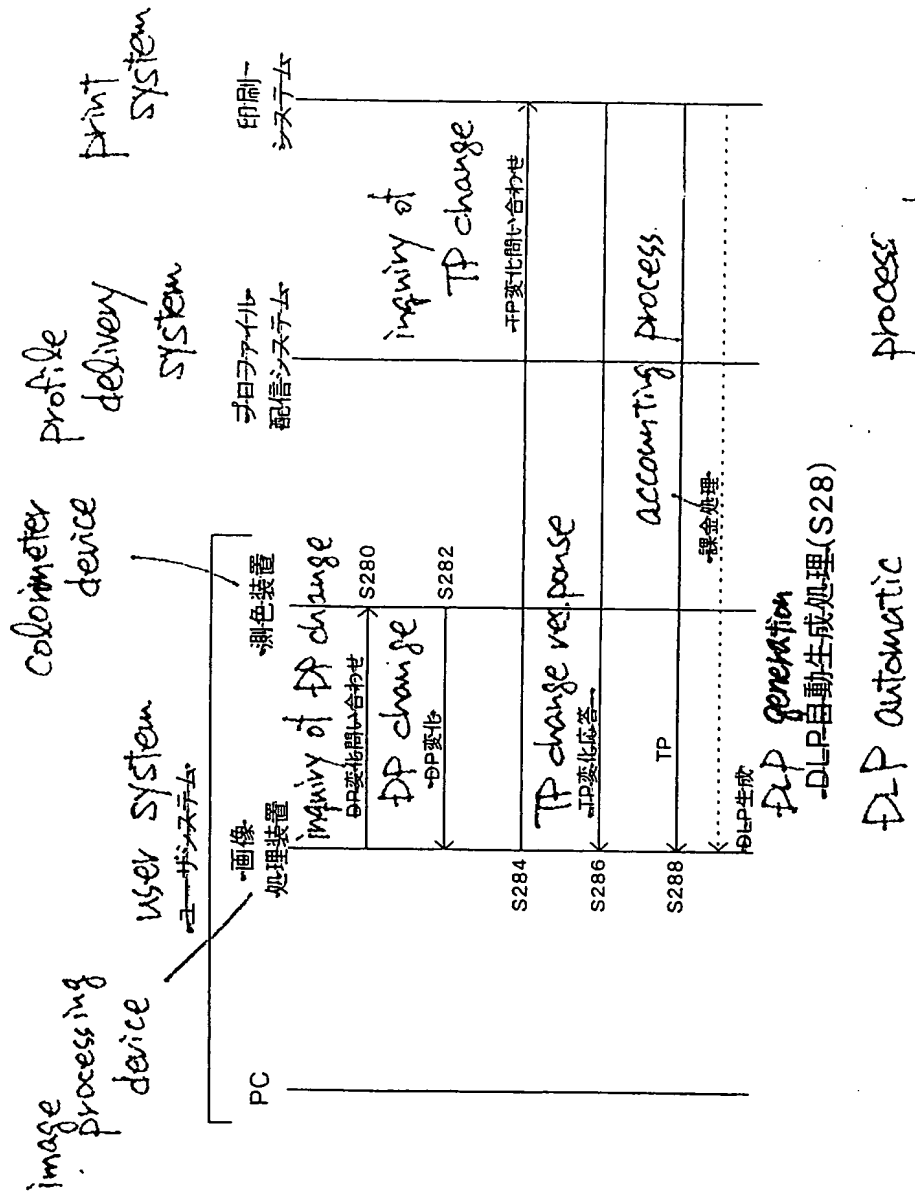


Fig. 14

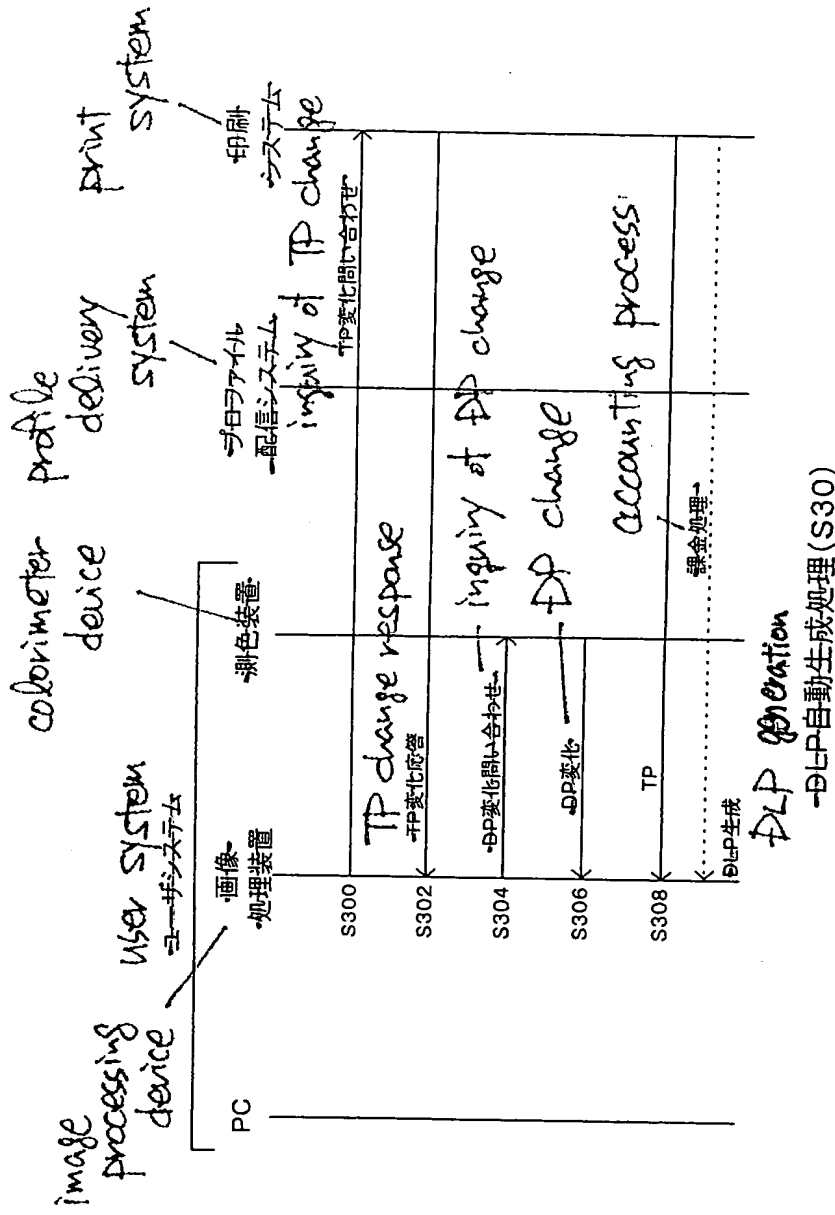


Fig. 15

【図1-5】

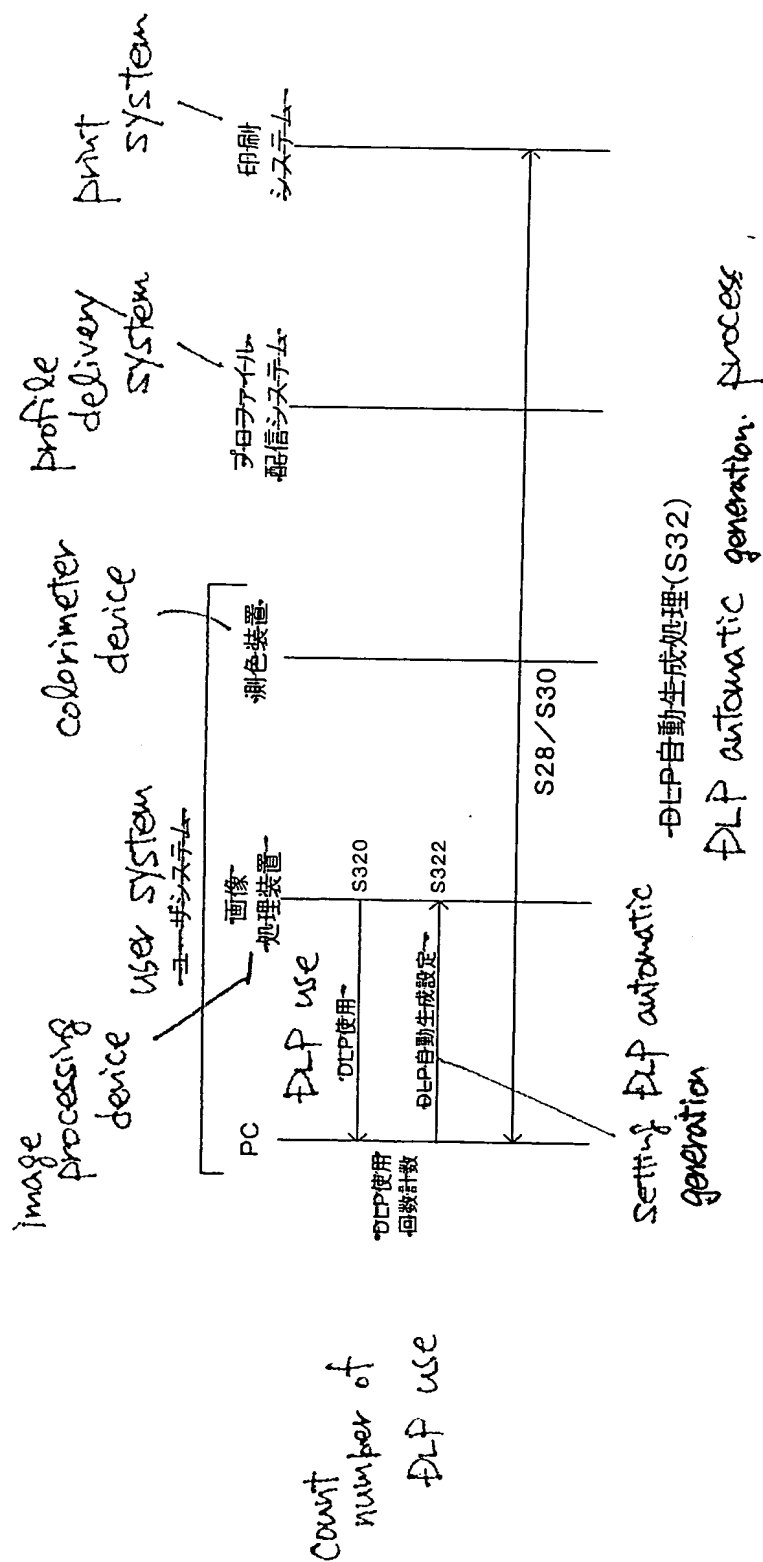
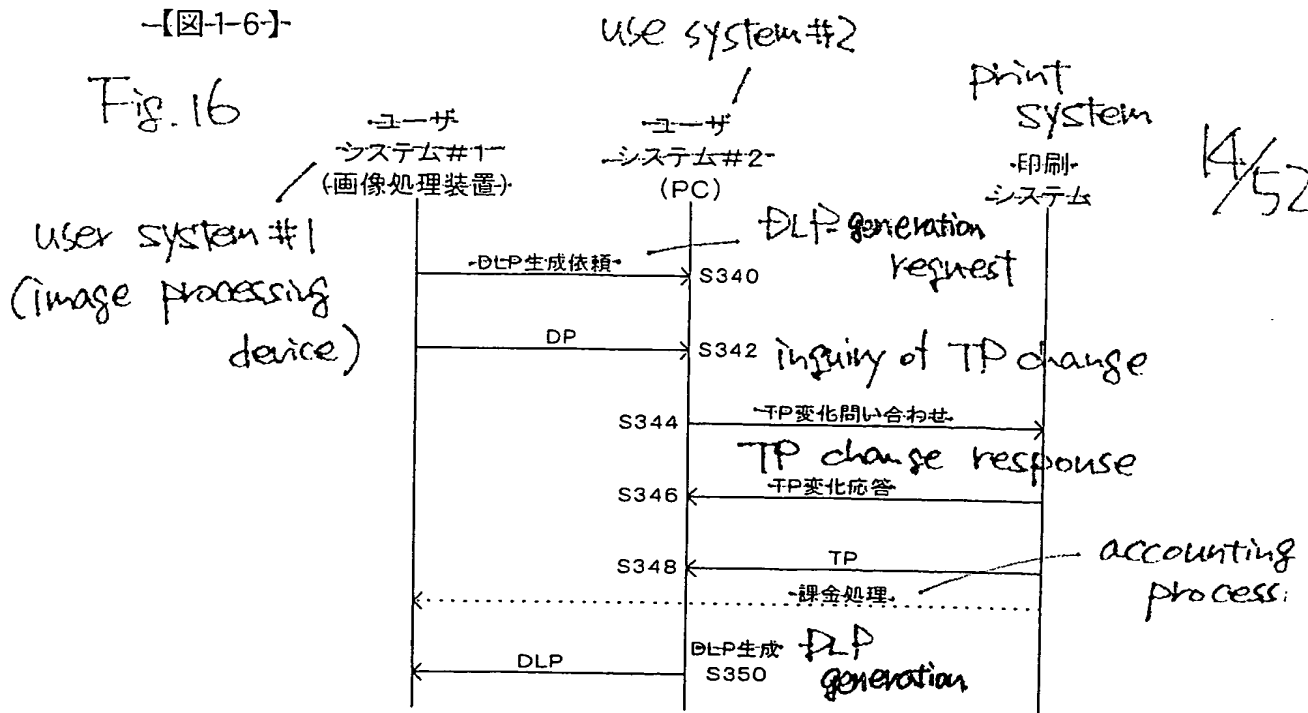


Fig. 16



DLP生成依頼処理(S34)

DLP generation request process

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Fig. 17

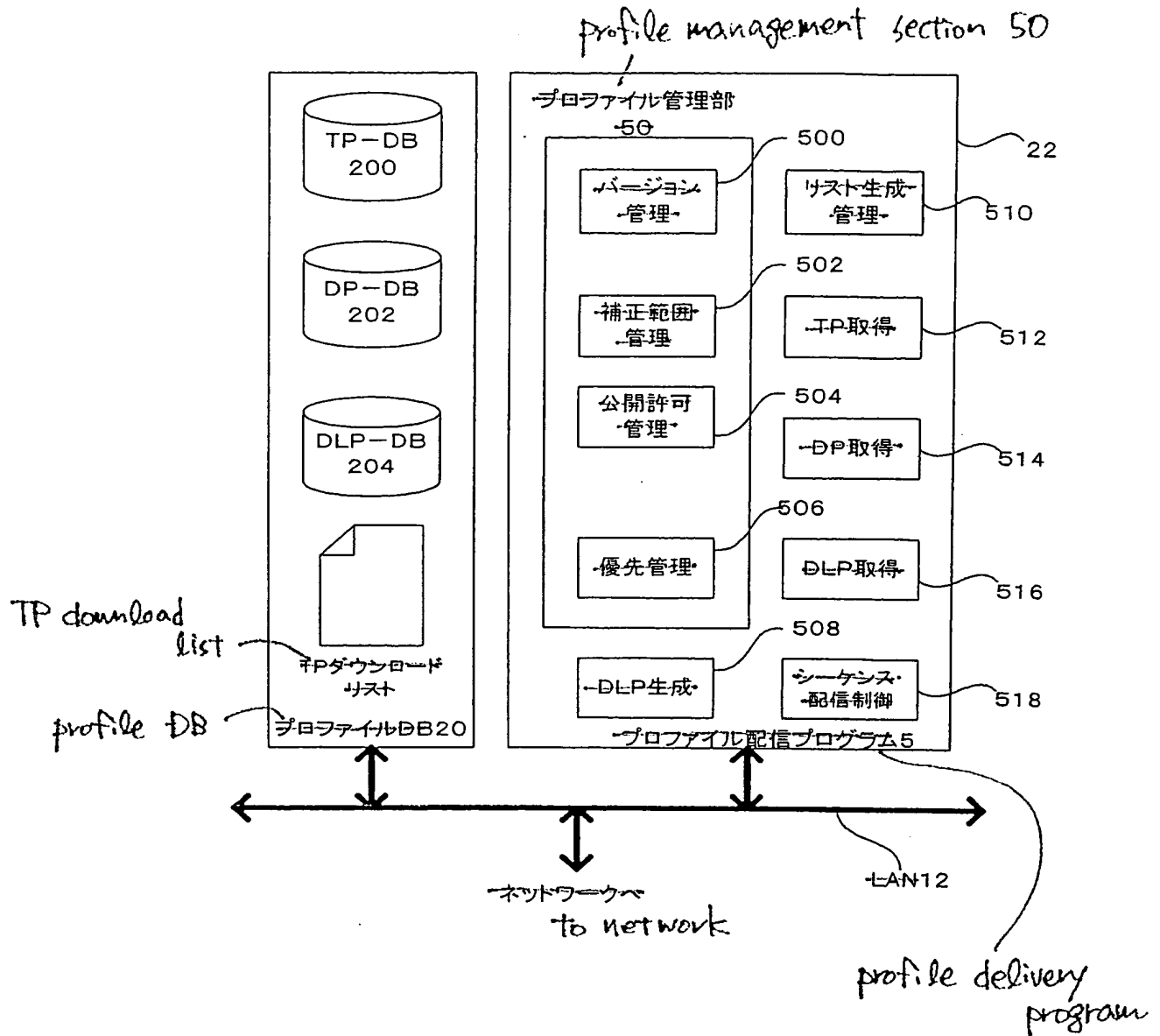
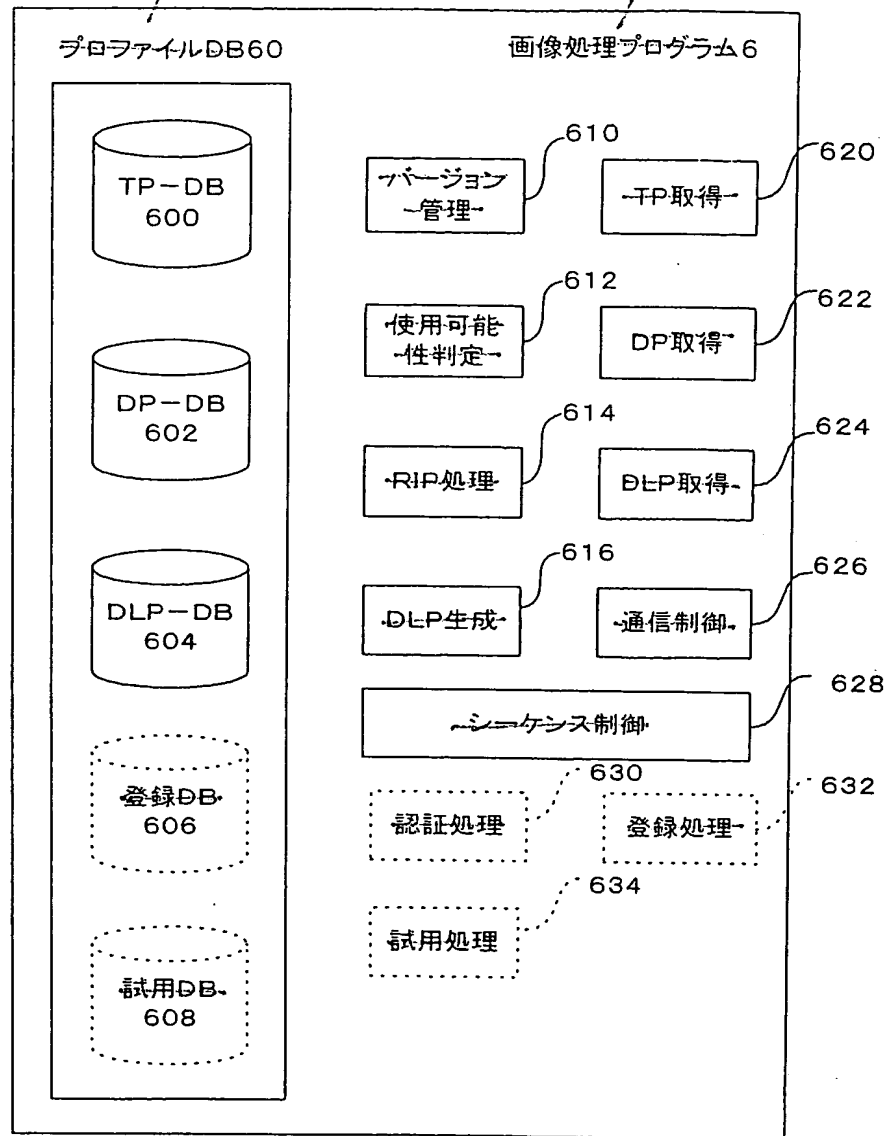


Fig. 17

500 VERSION MANAGEMENT SECTION
502 CORRECTION RANGE MANAGEMENT SECTION
504 PUBLIC AUTHORIZATION MANAGEMENT SECTION
506 PRIORITY MANAGEMENT SECTION
508 DLP GENERATION SECTION
510 LIST GENERATION MANAGEMENT SECTION
512 TP ACQUISITION SECTION
514 DP ACQUISITION SECTION
516 DLP ACQUISITION SECTION
518 SEQUENCE/COMMUNICATION CONTROL SECTION

Fig. 18 profile DB

image processing program 16/52



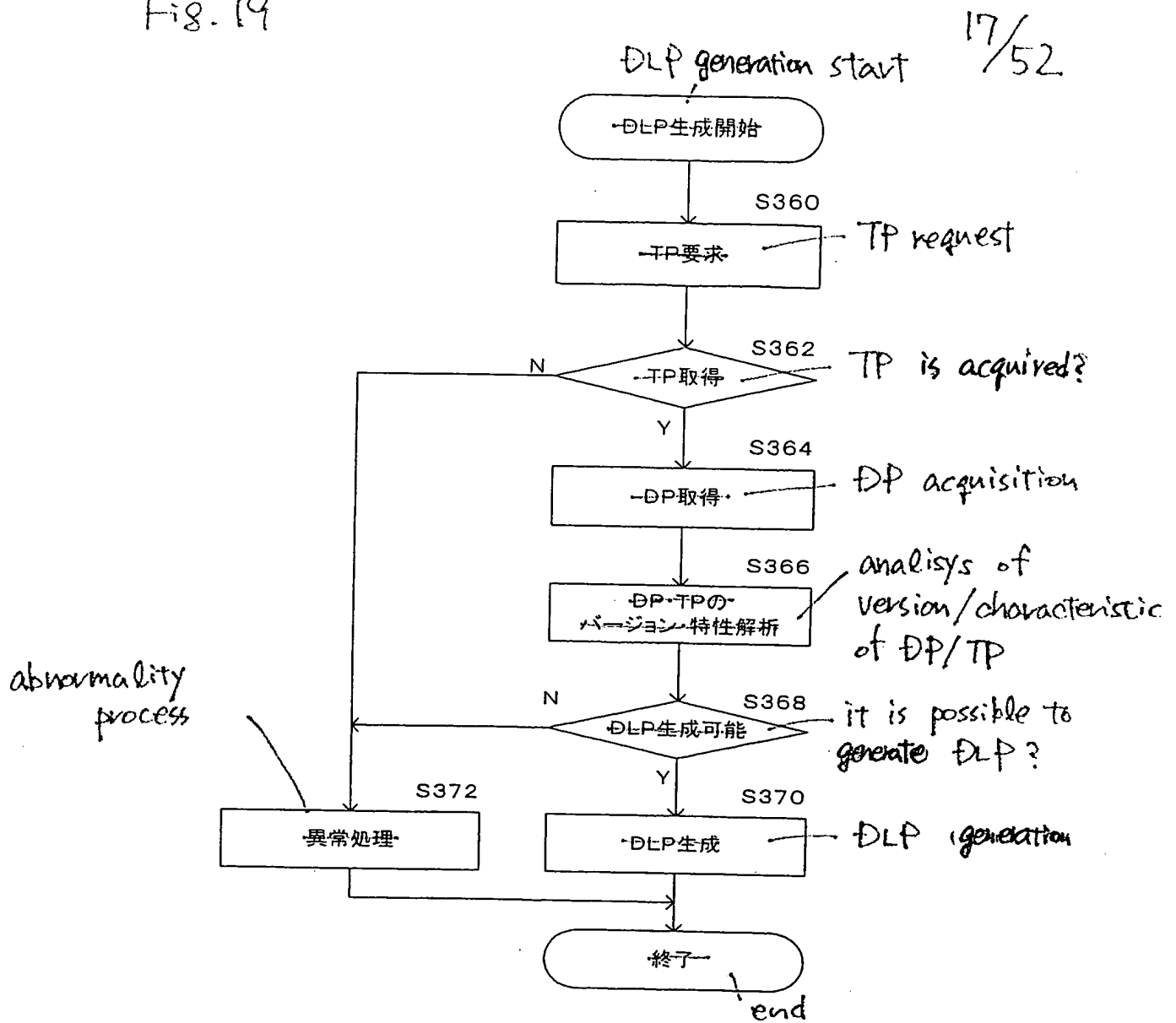
画像処理装置42(32)

image processing device

Fig. 18

606 REGISTRATION DB
608 TRIAL DB
610 VERSION MANAGEMENT SECTION
612 AVAILABILITY DECISION SECTION
614 RIP PROCESS SECTION
616 DLP GENERATION SECTION
620 TP ACQUISITION SECTION
622 DP ACQUISITION SECTION
624 DLP ACQUISITION SECTION
626 COMMUNICATION CONTROL SECTION
628 SEQUENCE CONTROL SECTION
630 AUTHENTICATION PROCESS SECTION
632 REGISTRATION PROCESS SECTION
634 TRIAL CONTROL SECTION

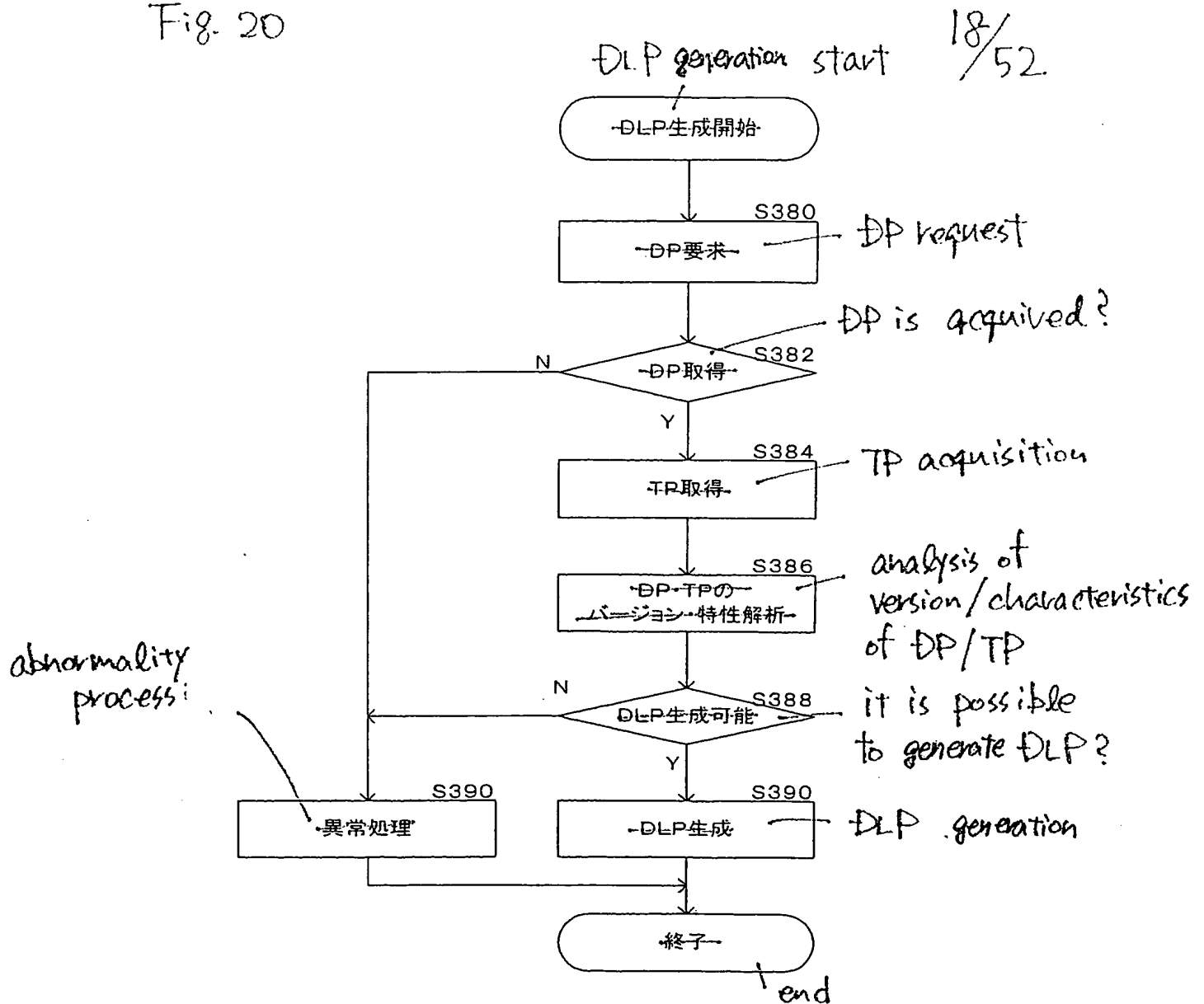
Fig. 19



ユーザシステム側でのDLP生成(S36)

DLP generation on user system side

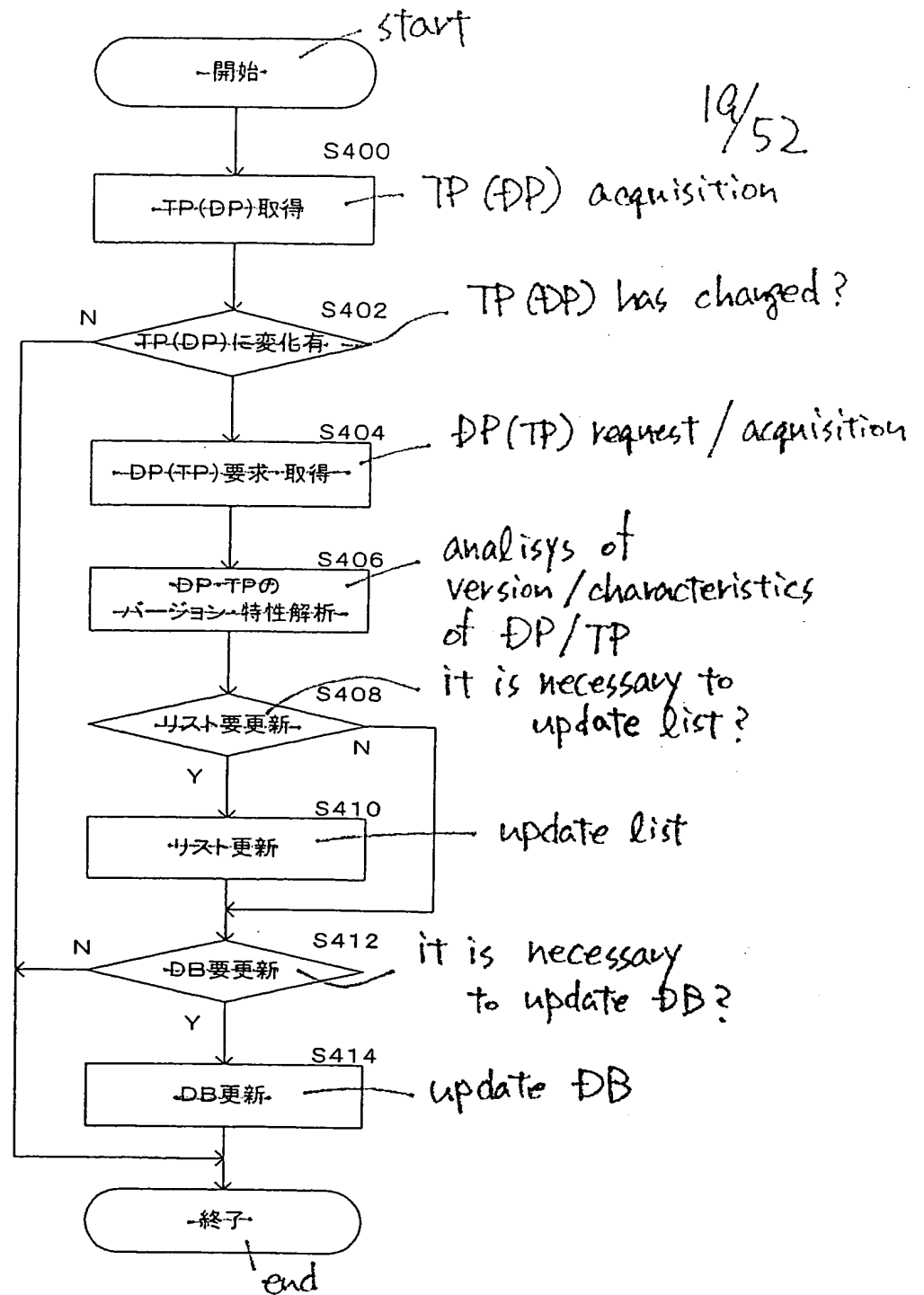
Fig. 20



プロフィール配信システム側での
DLP生成(S38)

DLP generation on profile delivery
system side

Fig. 21



プロファイル配信システム側
リスト・DB更新 (S40)

list / DB update
on profile delivery system side

Fig. 22

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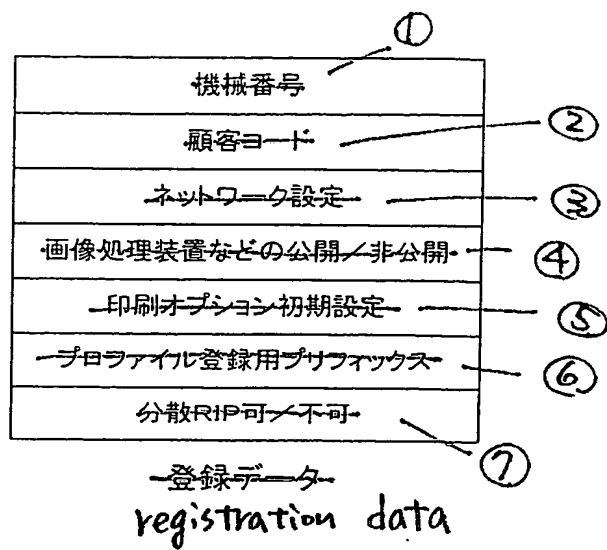


Fig. 22

- ① MACHINE NUMBER
- ② CUSTOMER CODE
- ③ NETWORK SETTING
- ④ PUBLIC/PRIVATE OF IMAGE PROCESSING DEVICE
- ⑤ INITIAL SETTING OF PRINT OPTION
- ⑥ PROFILE REGISTERING PREFIX
- ⑦ DECENTRALIZED RIP POSSIBLE/IMPOSSIBLE

Fig. 23

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| | | |
|---|---------------|---|
| ① | 依頼元 | ② |
| | 用紙サイズ | ③ |
| | カラー／白黒 | ④ |
| | 印刷部数 | ⑤ |
| | 原稿タイプ | ⑥ |
| | 画質モード | ⑦ |
| | プリンタモード | ⑧ |
| | 色変換モード | ⑨ |
| | 片面／両面 | ⑩ |
| | 拡大／等倍／縮小 | ⑪ |
| | Nアップ指定 | ⑫ |
| | 排出先指定 | ⑬ |
| | スプールオプション | ⑭ |
| | RIP済データ保存 | ⑮ |
| | 差し込み印刷 | ⑯ |
| | 色変換(プロファイル)指定 | ⑰ |
| | カバーページ | ⑱ |
| | 用紙種類 | ⑲ |
| | その他(時刻指定など) | ⑳ |

印刷オプション

print option

Fig. 23

- ① REQUESTER
- ② PAPER SIZE
- ③ COLOR/BLACK-AND-WHITE
- ④ PRINTED NUMBER
- ⑤ DOCUMENT TYPE
- ⑥ PICTURE QUALITY MODE
- ⑦ PRINTER MODE
- ⑧ COLOR CONVERSION MODE
- ⑨ SINGLE/DOUBLE SIDES
- ⑩ MAGNIFY/EQUAL/REDUCE
- ⑪ N-UP DESIGNATION
- ⑫ DESTINATION OF DISCHARGE
- ⑬ SPOOL OPTION
- ⑭ RIP PROCESSED DATA STORAGE
- ⑮ MERGING PRINT
- ⑯ COLOR CHANGE (PROFILE) DESIGNATION
- ⑰ COVER PAGE
- ⑱ PAPER KIND
- ⑲ OTHERS (TIME DESIGNATION)

Fig. 24

22/52

| | | |
|---|-----------------|---|
| ① | —依頼元— | |
| | RIPステータス | ② |
| | —カラー／白黒— | ③ |
| | —画質モード— | ④ |
| | —プリンタモード— | ⑤ |
| | —用紙サイズ— | ⑥ |
| | —処理部数— | ⑦ |
| | —RIPページ— | ⑧ |
| | —RIP時間— | ⑨ |
| | —開始時間— | ⑩ |
| | —ファイルサイズ— | ⑪ |
| | —カバーページ有／無— | ⑫ |
| | —RIP済データ有／無— | ⑬ |
| | —色変換(プロファイル)指定— | ⑭ |
| | —分散RIP— | ⑮ |

・RIPデータ

RIP data

Fig. 24

- ① REQUESTER
- ② RIP STATUS
- ③ COLOR/BLACK-AND-WHITE
- ④ PICTURE QUALITY MODE
- ⑤ PRINTER MODE
- ⑥ PAPER SIZE
- ⑦ NUMBER OF PRINTS TO BE PROCESSED
- ⑧ RIP PAGE
- ⑨ RIP TIME
- ⑩ START TIME
- ⑪ FILE SIZE
- ⑫ PRESENCE/ABSENCE OF COVER PAGE
- ⑬ PRESENCE/ABSENCE OF RIP-PROCESSED DATA
- ⑭ COLOR CONVERSION (PROFILE) DESIGNATION
- ⑮ DECENTRALIZED RIP

Fig. 25

| | |
|--------------|---|
| 処理種別(RIP／印刷) | ① |
| 課金先(依頼元) | ② |
| カラー／白黒 | ③ |
| 用紙サイズ | ④ |
| 処理部数 | ⑤ |
| ページ数 | ⑥ |
| カバーページ有／無 | ⑦ |
| 用紙種類 | ⑧ |
| 片面／両面 | ⑨ |
| 分散RIP | ⑩ |

印刷データ

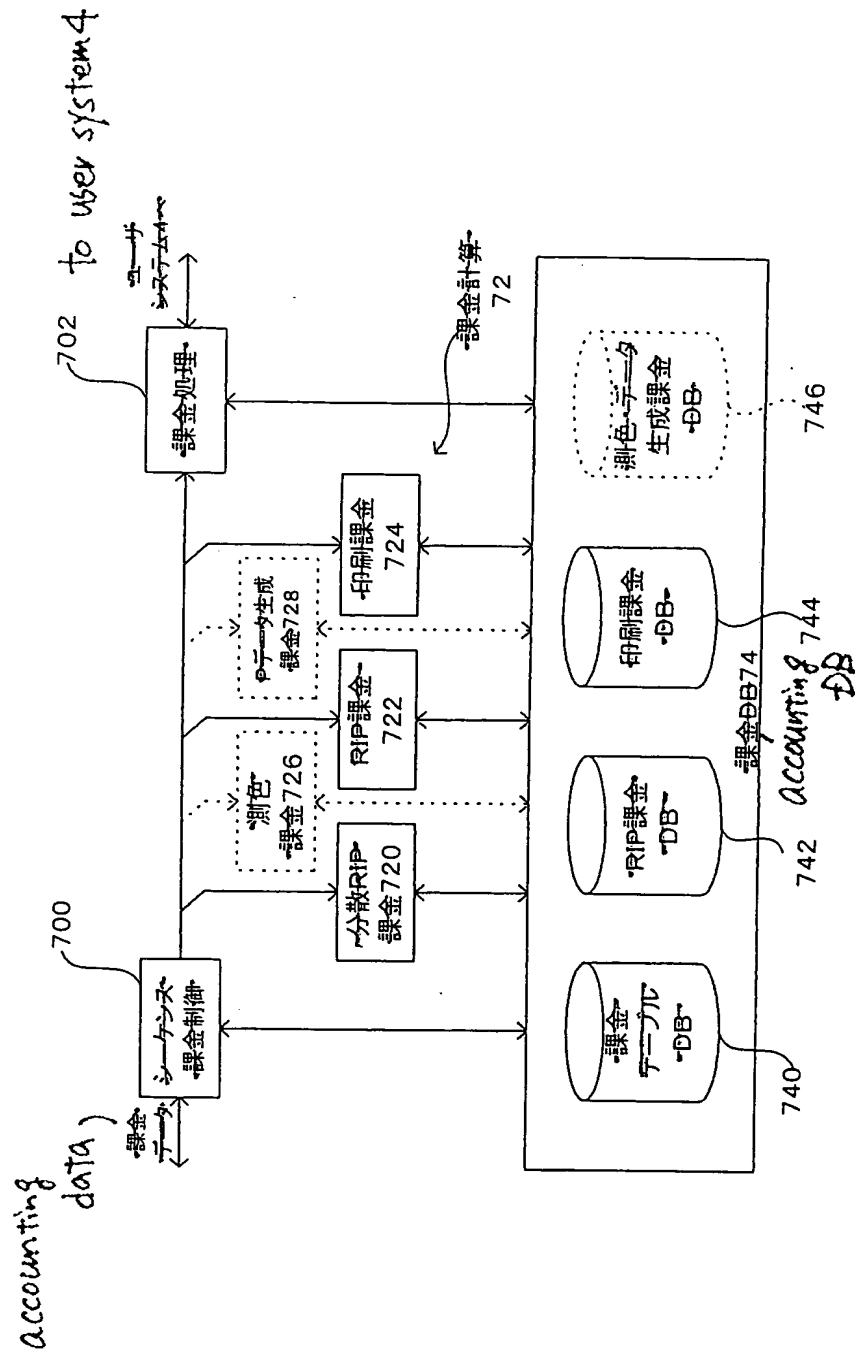
print data

23/52

Fig. 25

- ① PROCESSING KIND (RIP/PRINT)
- ② ACCOUNTING TARGET (REQUESTER)
- ③ COLOR/WHITE-AND-BLACK
- ④ PAPER SIZE
- ⑤ NUMBER OF PRINTS TO BE PROCESSED
- ⑥ PAGE NUMBER
- ⑦ PRESENCE/ABSENCE OF COVER PAGE
- ⑧ PAPER KIND
- ⑨ SINGLE/DOUBLE SIDES
- ⑩ DECENTRALIZED RIP

Fig. 26



課金プログラム70
accounting program

Fig. 26

| | |
|-----|---|
| 700 | SEQUENCE/ACCOUNTING CONTROL SECTION |
| 702 | ACCOUNTING PROCESS SECTION |
| 720 | DECENTRALIZED RIP ACCOUNTING SECTION |
| 722 | RIP ACCOUNTING SECTION |
| 724 | PRINT ACCOUNTING SECTION |
| 726 | COLORIMETRY ACCOUNTING SECTION |
| 728 | P-DATA GENERATION ACCOUNTING SECTION |
| 740 | ACCOUNTING TABLE DB |
| 742 | RIP ACCOUNTING DB |
| 744 | PRINT ACCOUNTING DB |
| 746 | COLORIMETRY/DATA GENERATION ACCOUNTING DB |

Fig. 27

user system

image processing device

print system
印刷システム

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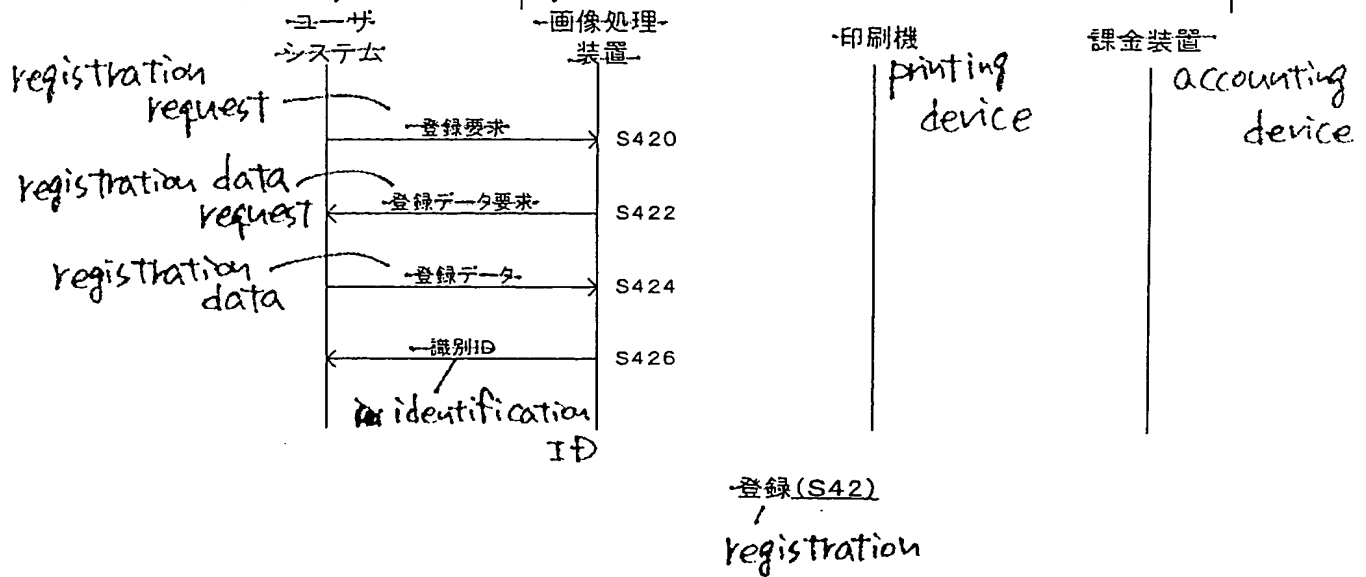


Fig. 28

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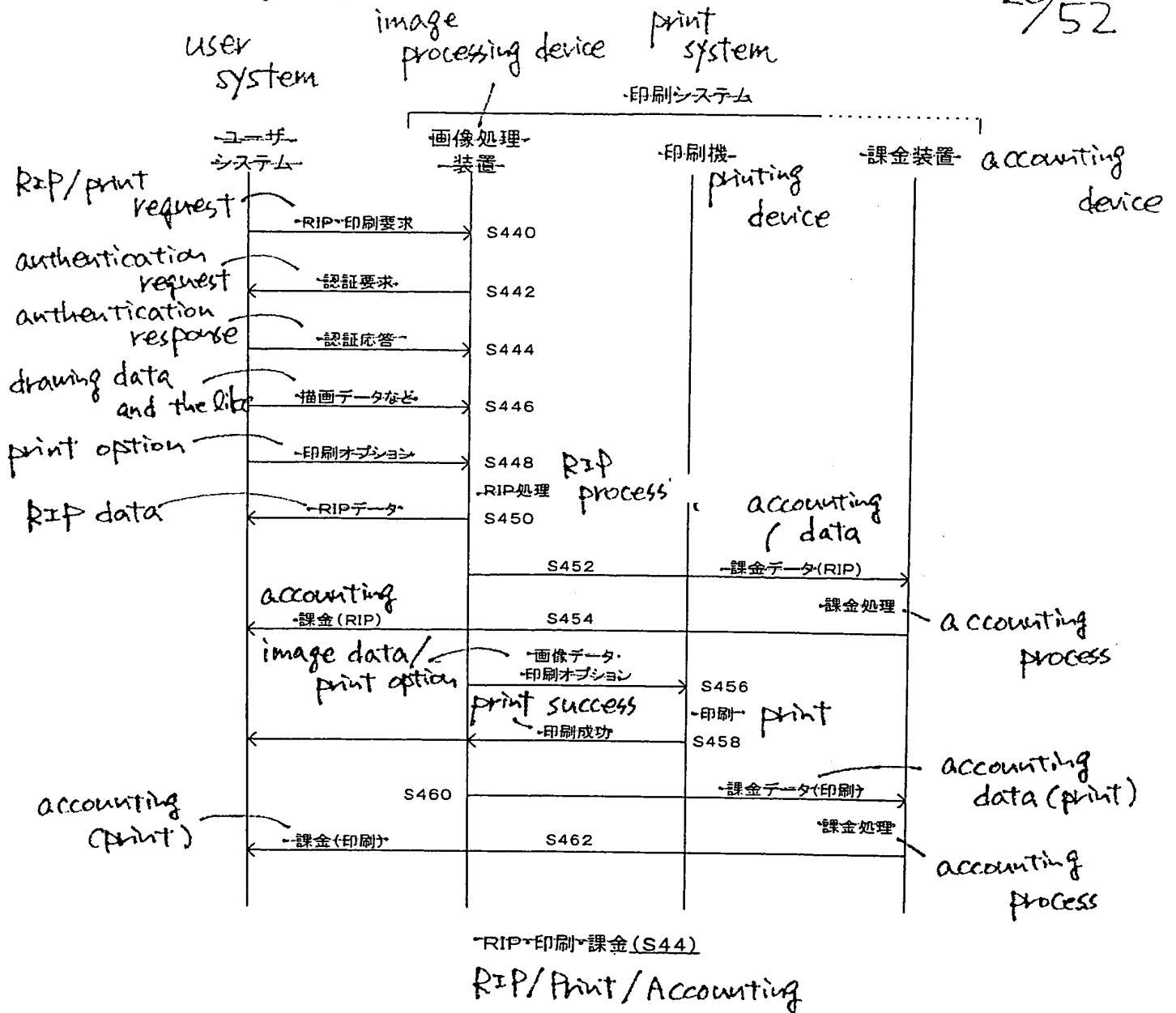
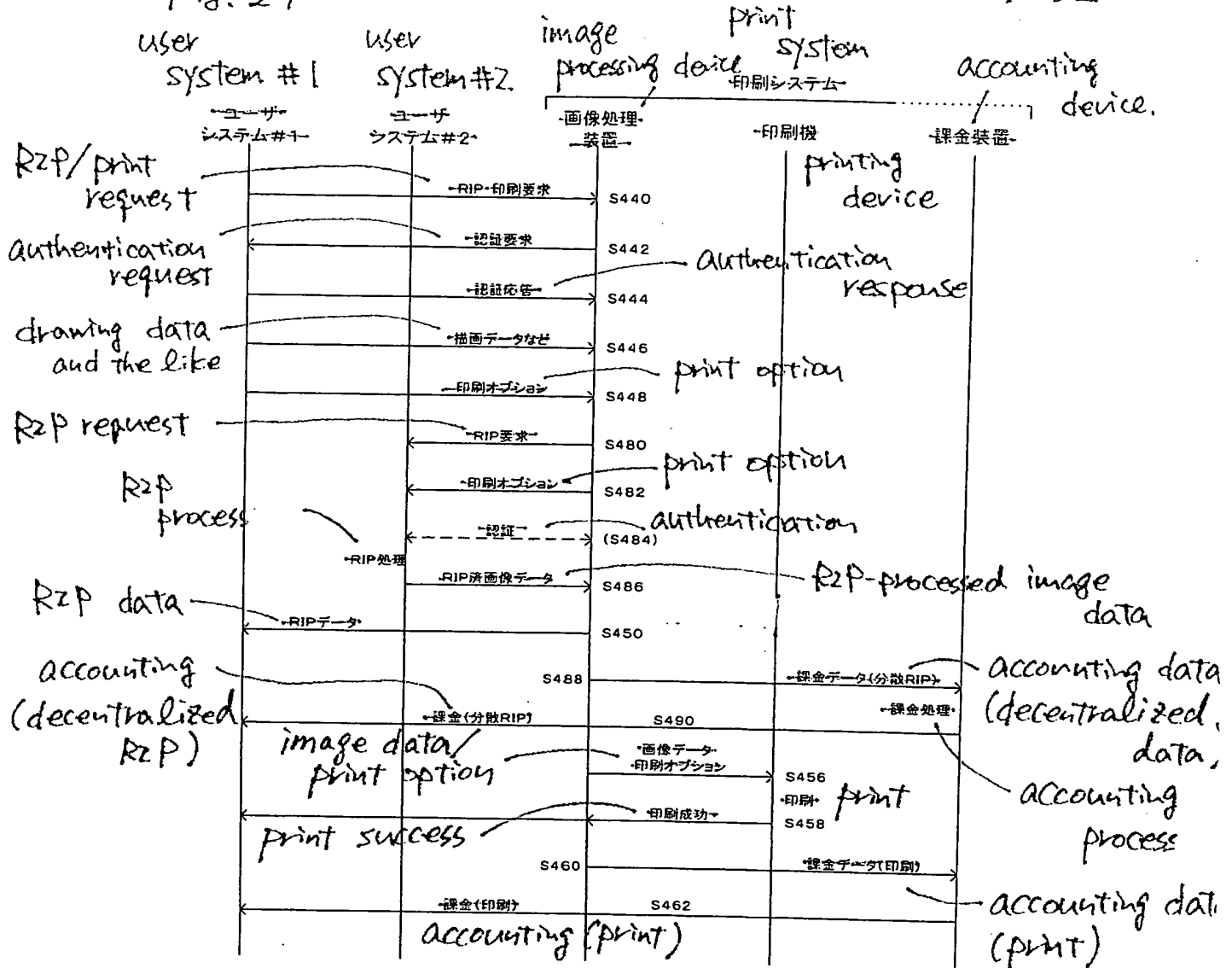


Fig. 29



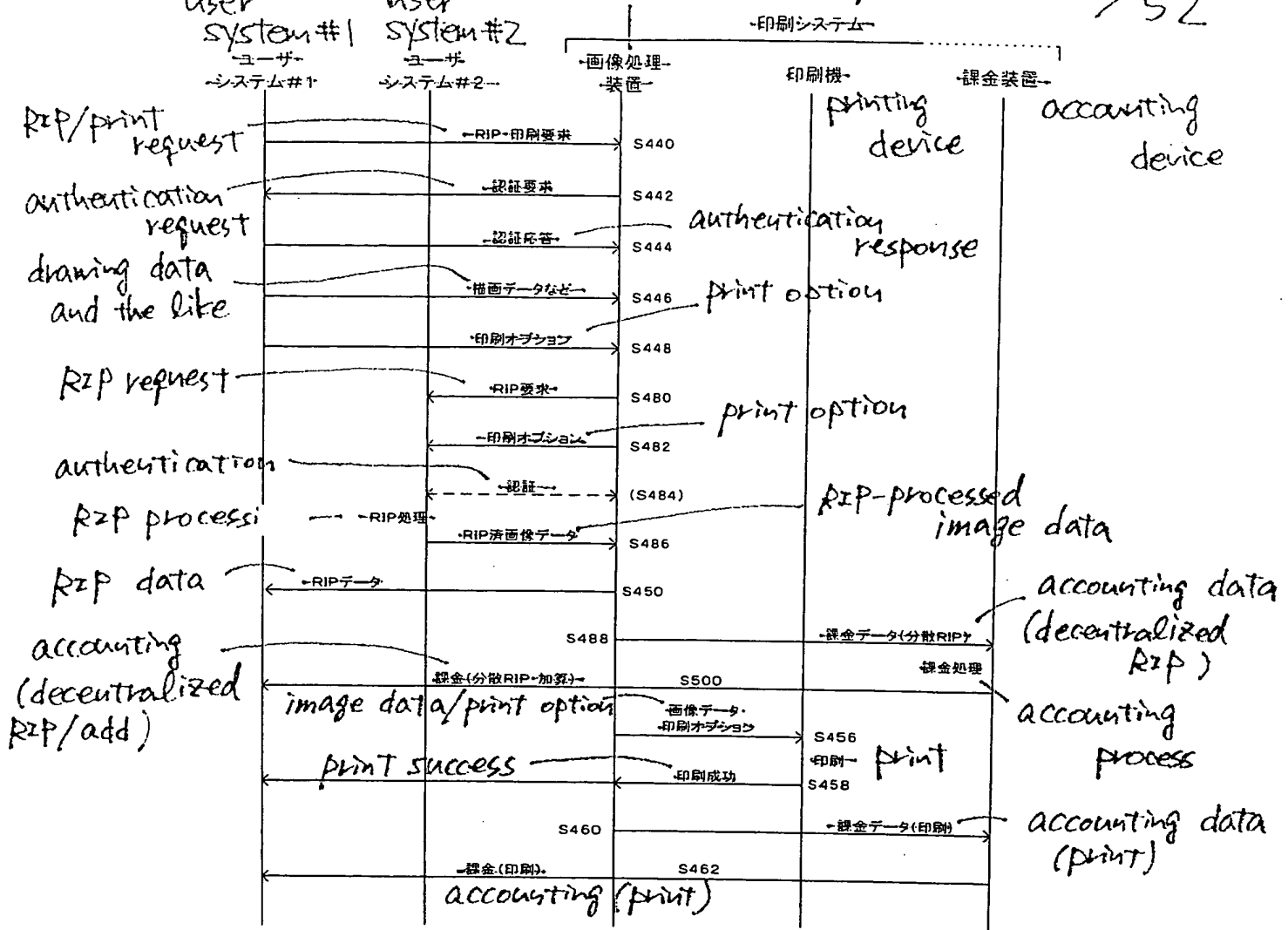
分散RIP・印刷・課金(S48)

decentralized RZP/print/accounting

Fig. 30

image processing print system
device

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-分散RIP・印刷・割り増し課金(S50)

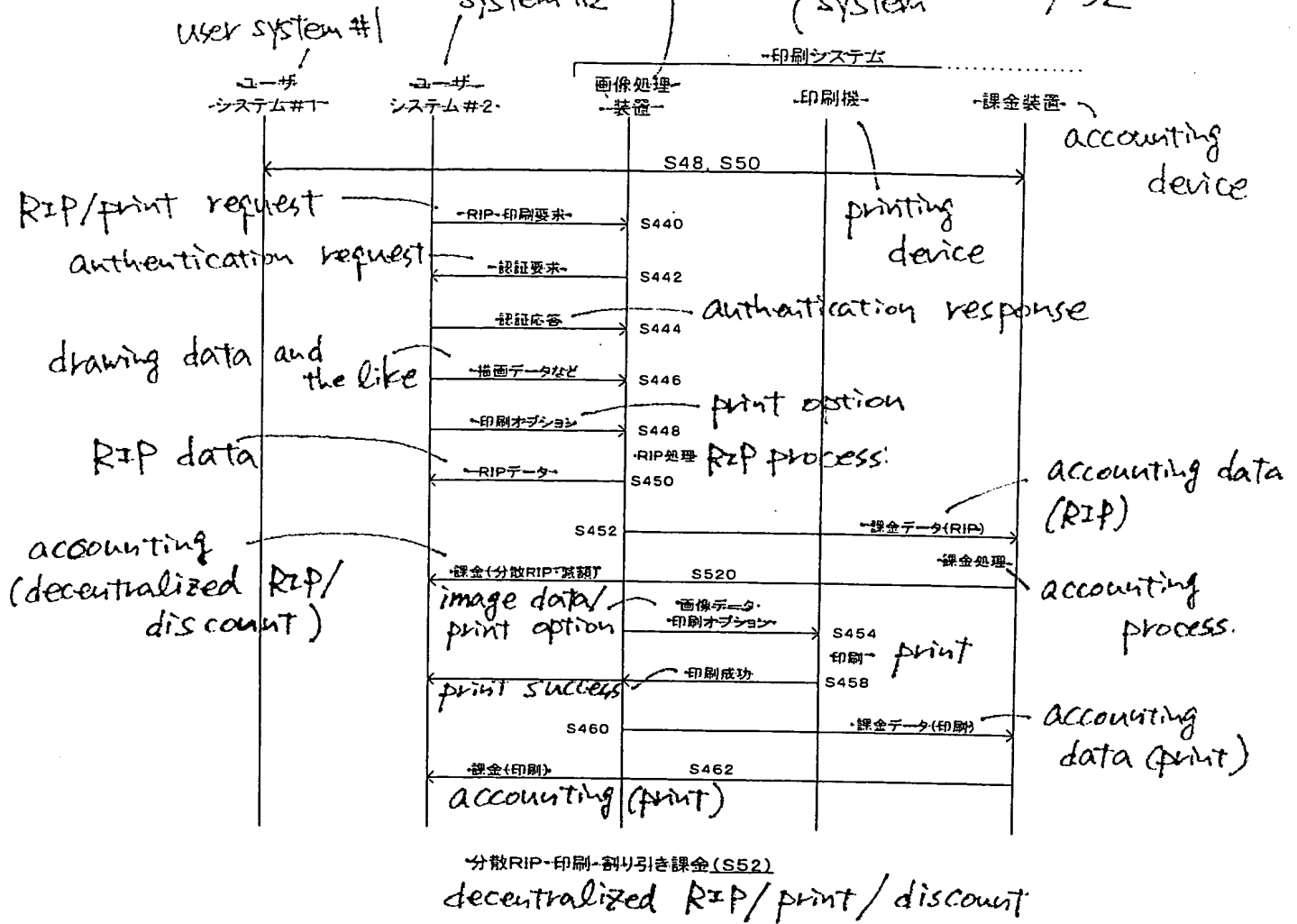
decentralized RIP/print/
extra accounting

Fig. 31

image processing device

print (system)

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-[図3-2]-

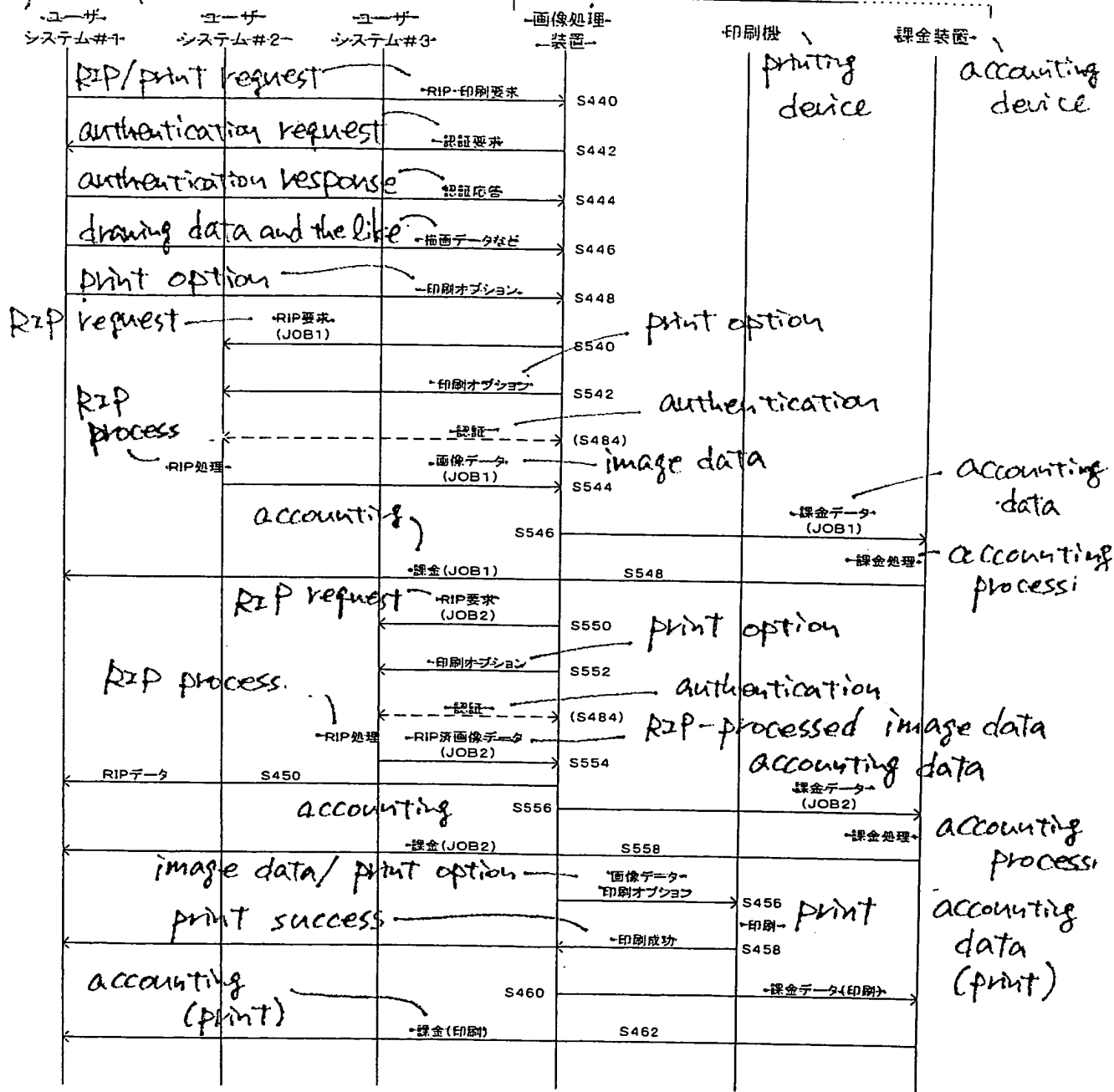
Fig. 32
user system #1

user system #2

user system #3

image processing device (print system)

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一分散RIP・印刷・割り増し課金(S54)

decentralized RIP/print/extra accounting

Fig. 33
user system

accounting information

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received decentralized RIP

target of extra accounting

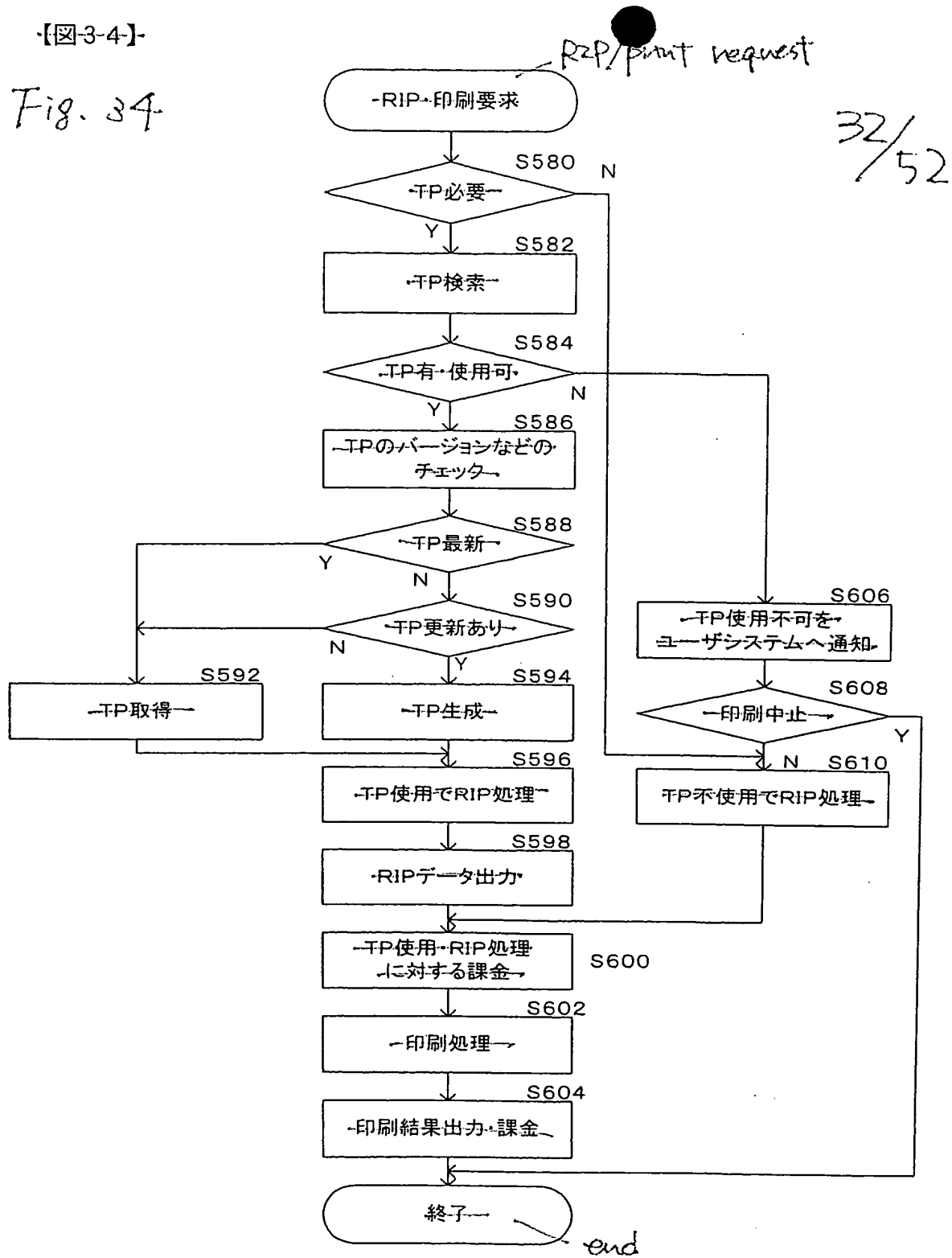
← 割り増し課金対象

← 割り引き課金対象

target of discount.

| ユーザシステム | 課金情報 | |
|--------------|------------|---------------------------------|
| #1 | 通常RIP | normal RIP |
| | 要求した分散RIP | requested decentralized RIP |
| | 受け入れた分散RIP | JOB-ii |
| | 印刷 | print |
| normal #2 | 通常RIP | JOB-i |
| | 要求した分散RIP | JOB-ii, JOB-iii |
| | 受け入れた分散RIP | |
| | 印刷 | print JOB-i, JOB-ii, JOB-iii |
| #2 | 通常RIP | normal |
| | 要求した分散RIP | JOB-iii |
| | 受け入れた分散RIP | |
| | 印刷 | print |

Fig. 34

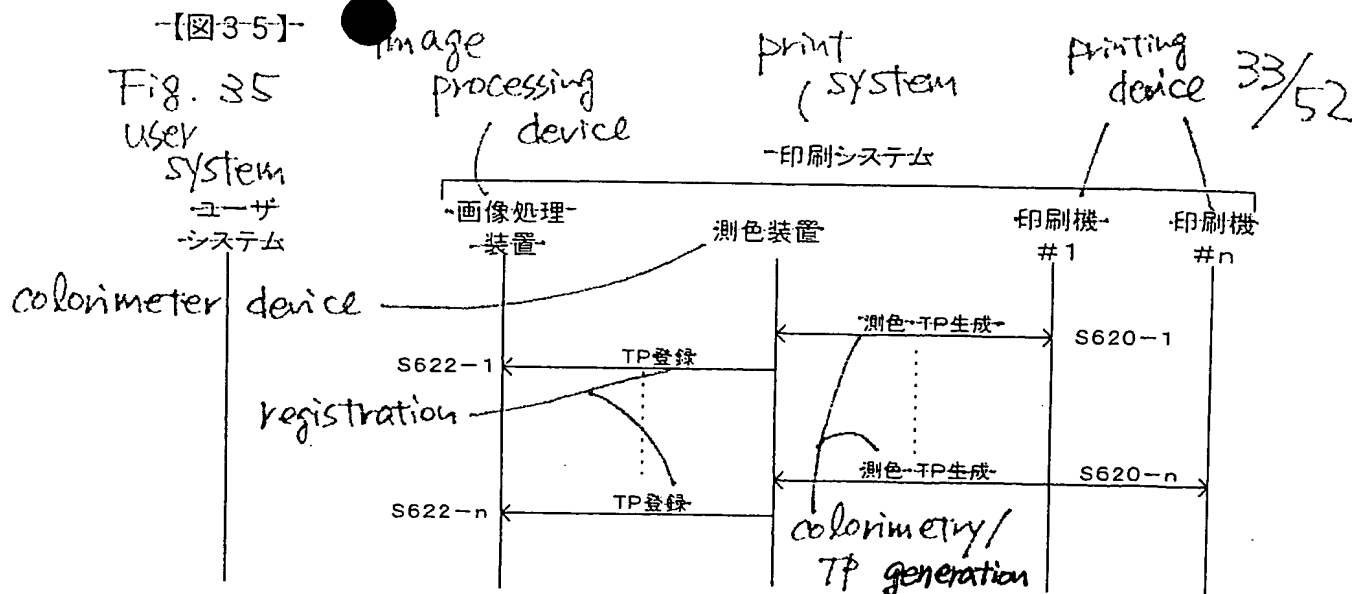


TP検索・RIP・印刷(S58)

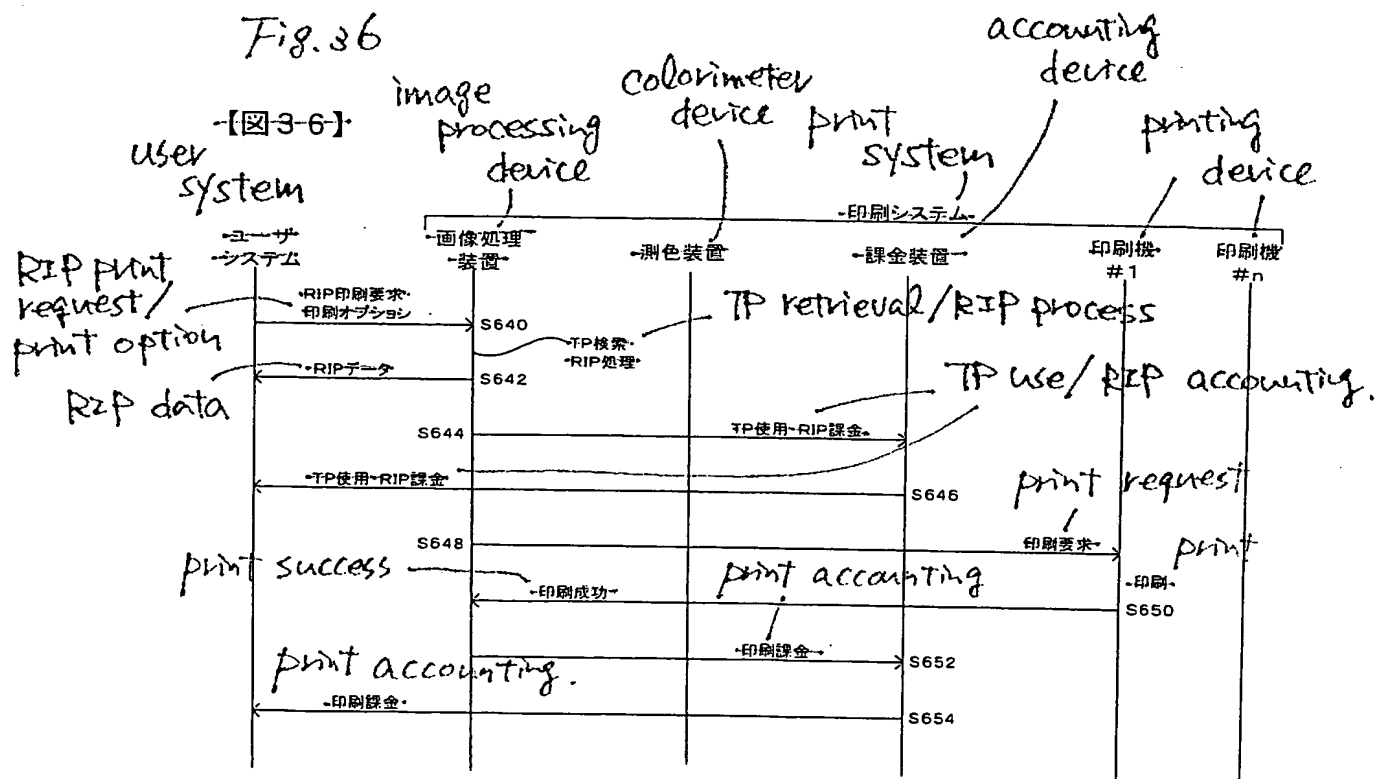
TP retrieval / RIP / print

Fig. 34

S580 TP IS NECESSARY ?
S582 TP RETRIEVAL
S584 TP EXISTS/IS AVAILABLE?
S586 CHECK TP VERSION
S588 LATEST TP ?
S590 TP HAS BEEN UPDATED ?
S592 TP ACQUISITION
S594 TP GENERATION
S596 RIP PROCESS USING TP
S598 OUTPUT RIP DATA
S600 ACCOUNT FOR TP USE/RIP PROCESS
S602 PRINT PROCESS
S604 OUTPUT PRINT RESULT/ACCOUNT
S606 INFORM USER SYSTEM OF UNAVAILABILITY OF TP
S608 PRINT IS TERMINATED?
S610 RIP PROCESSING WITHOUT TP



TP生成-登録(S62)
TP generation/registration



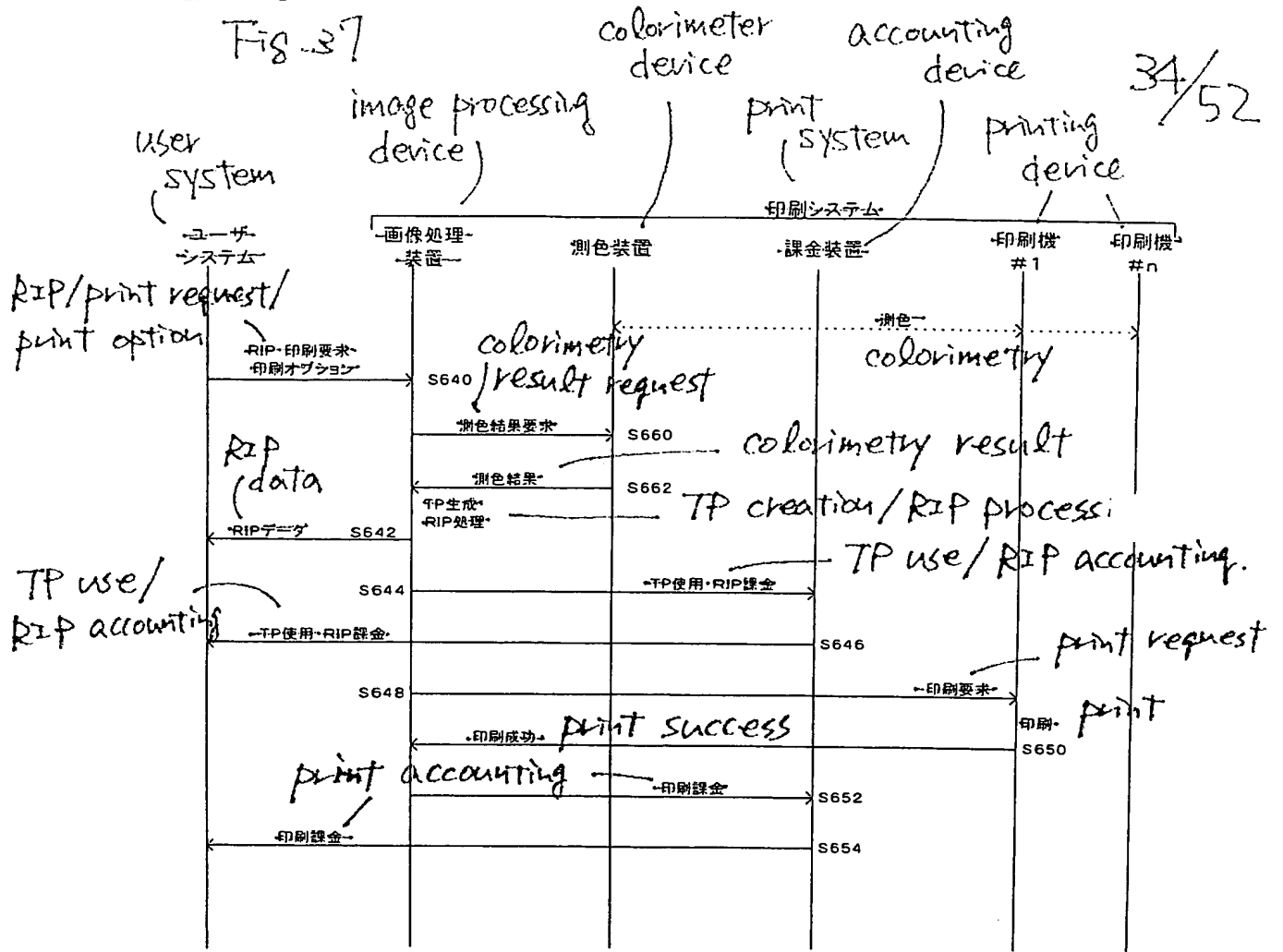
TP検索・RIP・印刷(S64)

TP retrieval/RIP/print

・[図3-7]・

Fig. 37

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TP使用RIP・印刷(S66)

RIP (with TP/print)

-(図3-8)-

Fig. 28
user system

image processing device colorimetric device print system accounting device printing device 35/52

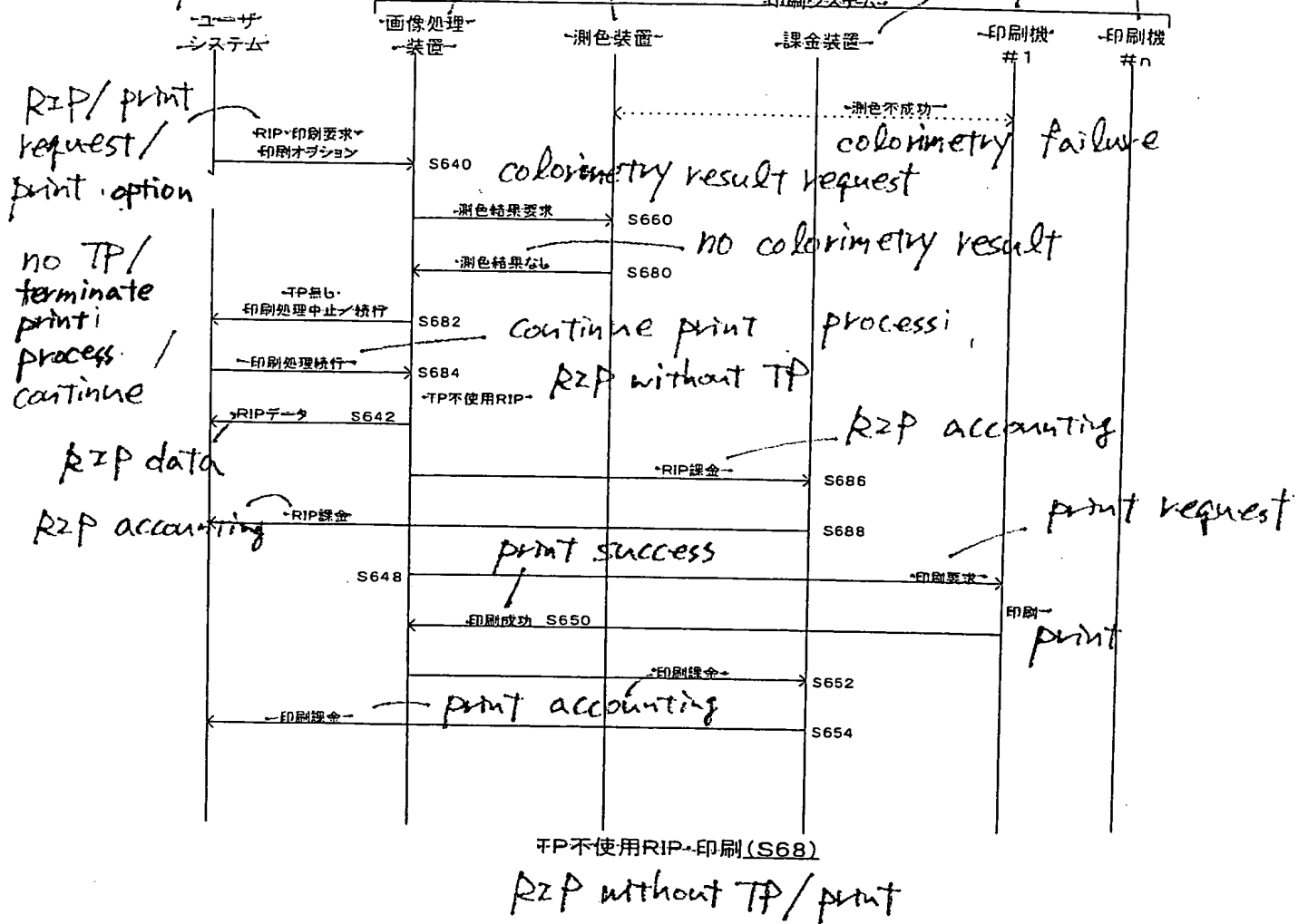
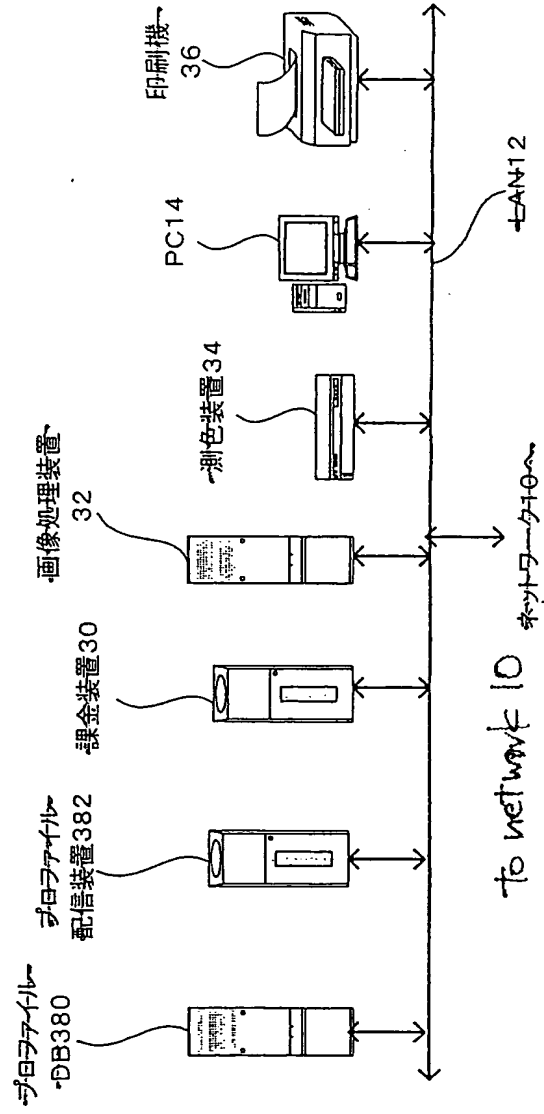


Fig. 39



印刷システム38

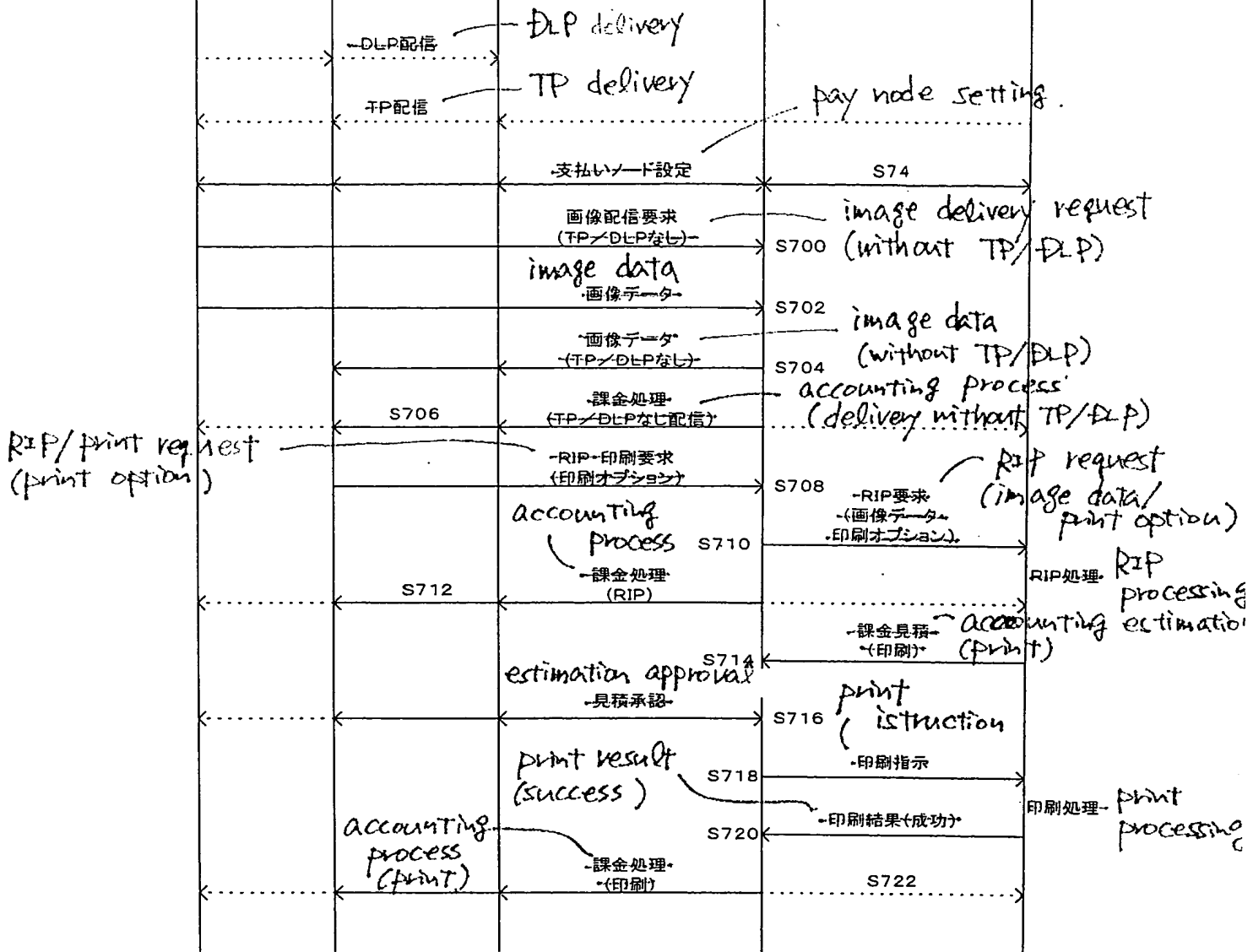
【図4-0】

3. 40

print control system

print system

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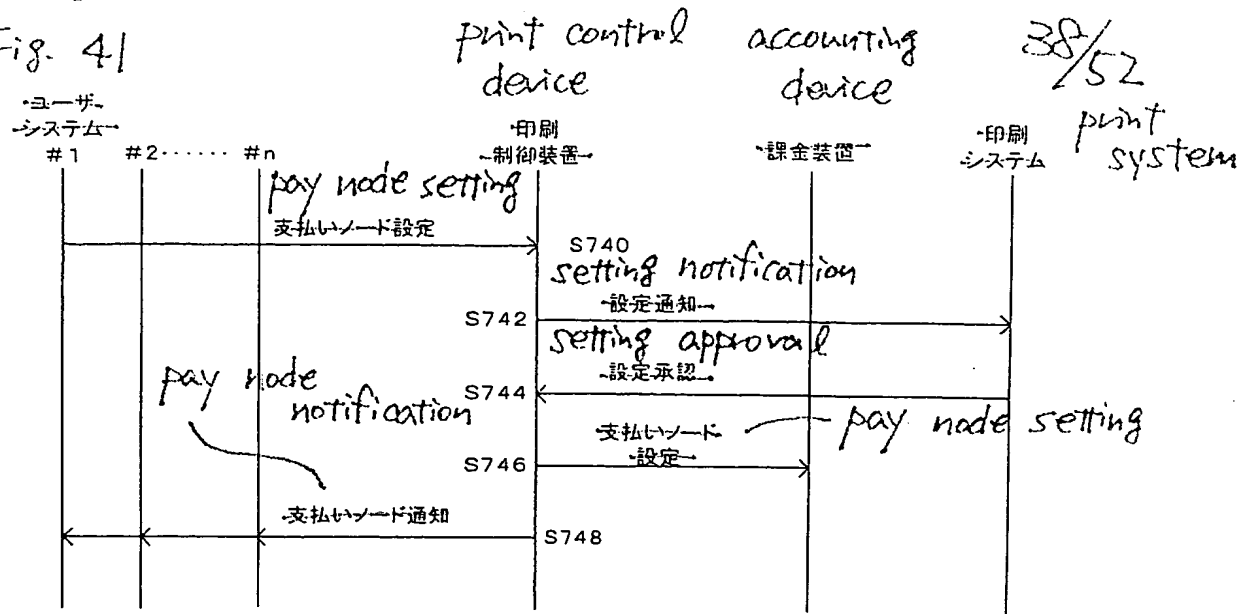


TP/DLPなしデータ配信～印刷 (S70)

delivery of data without TP/DLP ~ print

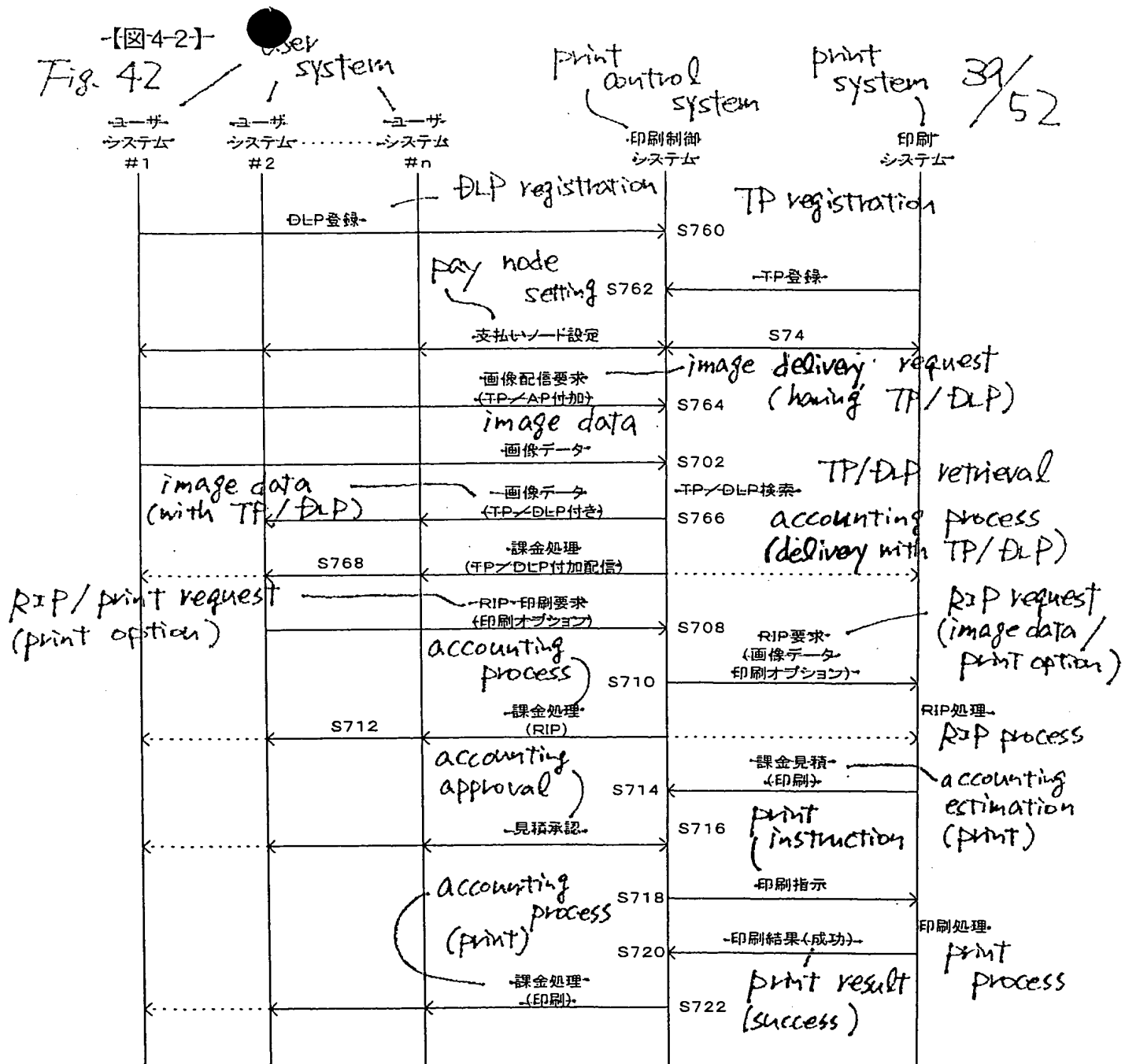
-【図41】-

Fig. 41



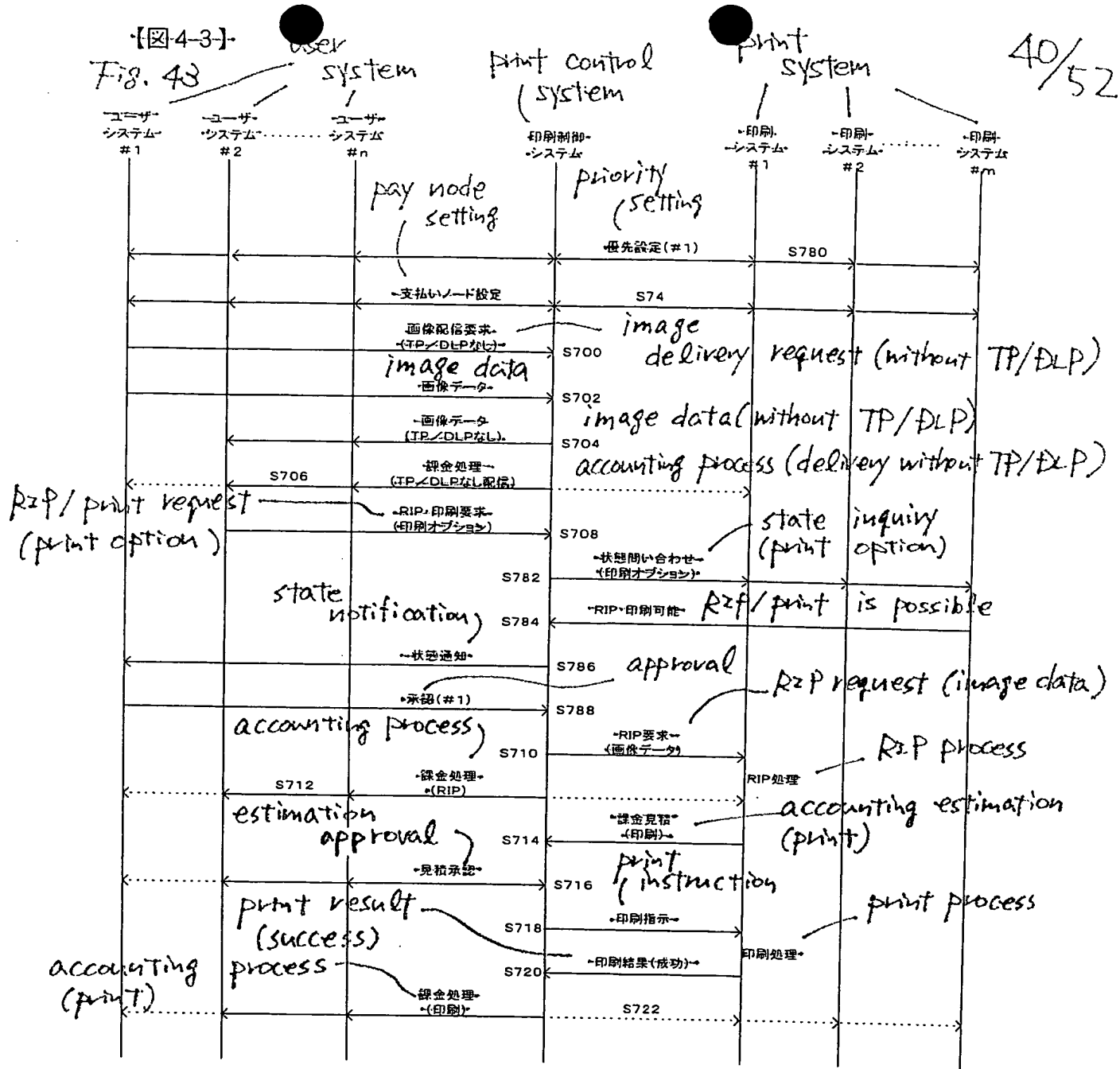
支払いノード設定(S74)
pay node setting.

Fig. 42



【図4-3】
Fig. 43

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TP/DLPなしデータ配信~印刷~
(S78)

data delivery without TP/DLP ~ print

【図4-4】

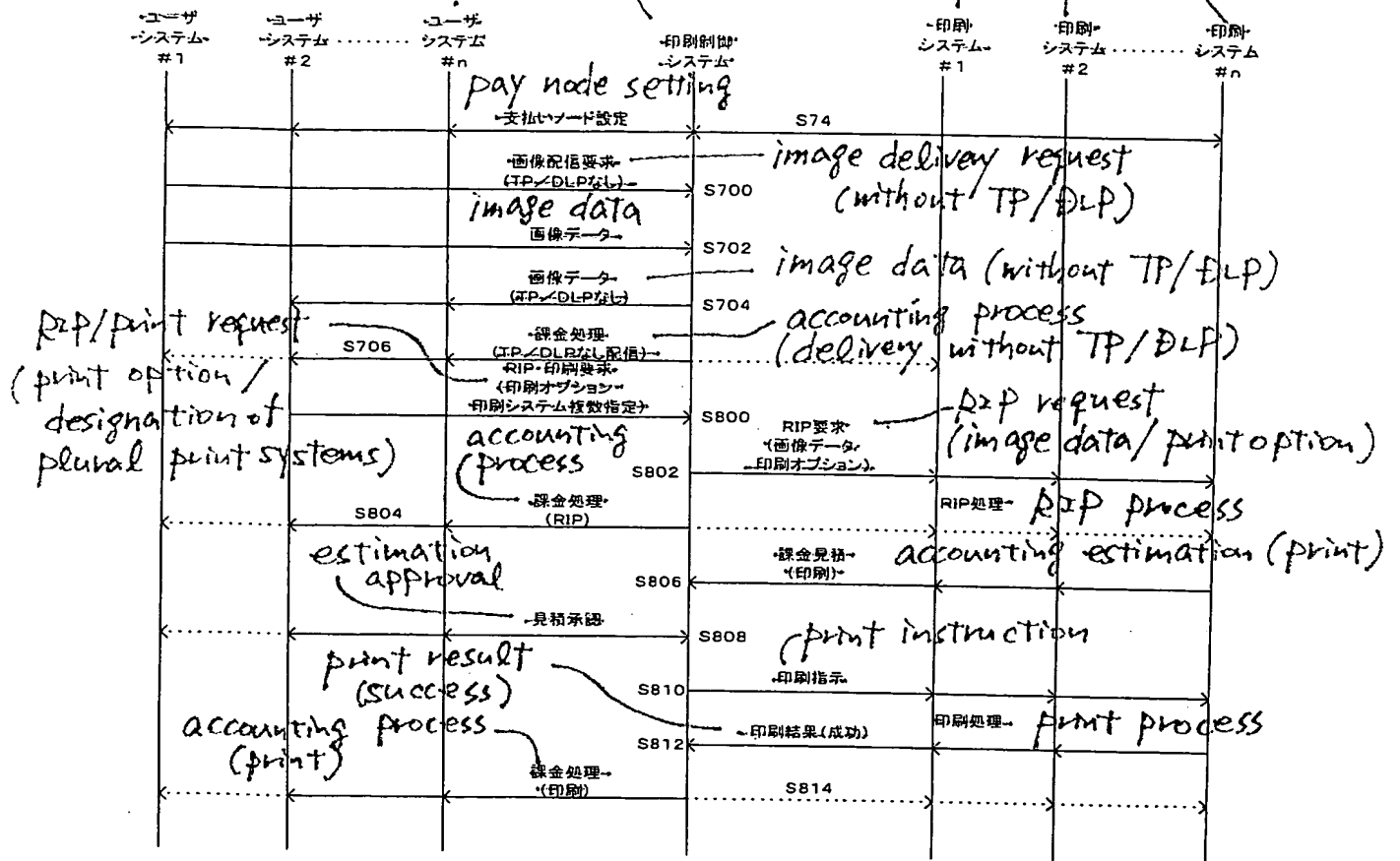
Fig. 44

user system

print control system

print system

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TP/DLPなしデータ配信~印刷-
(S80)

data delivery without TP/DLP ~ print

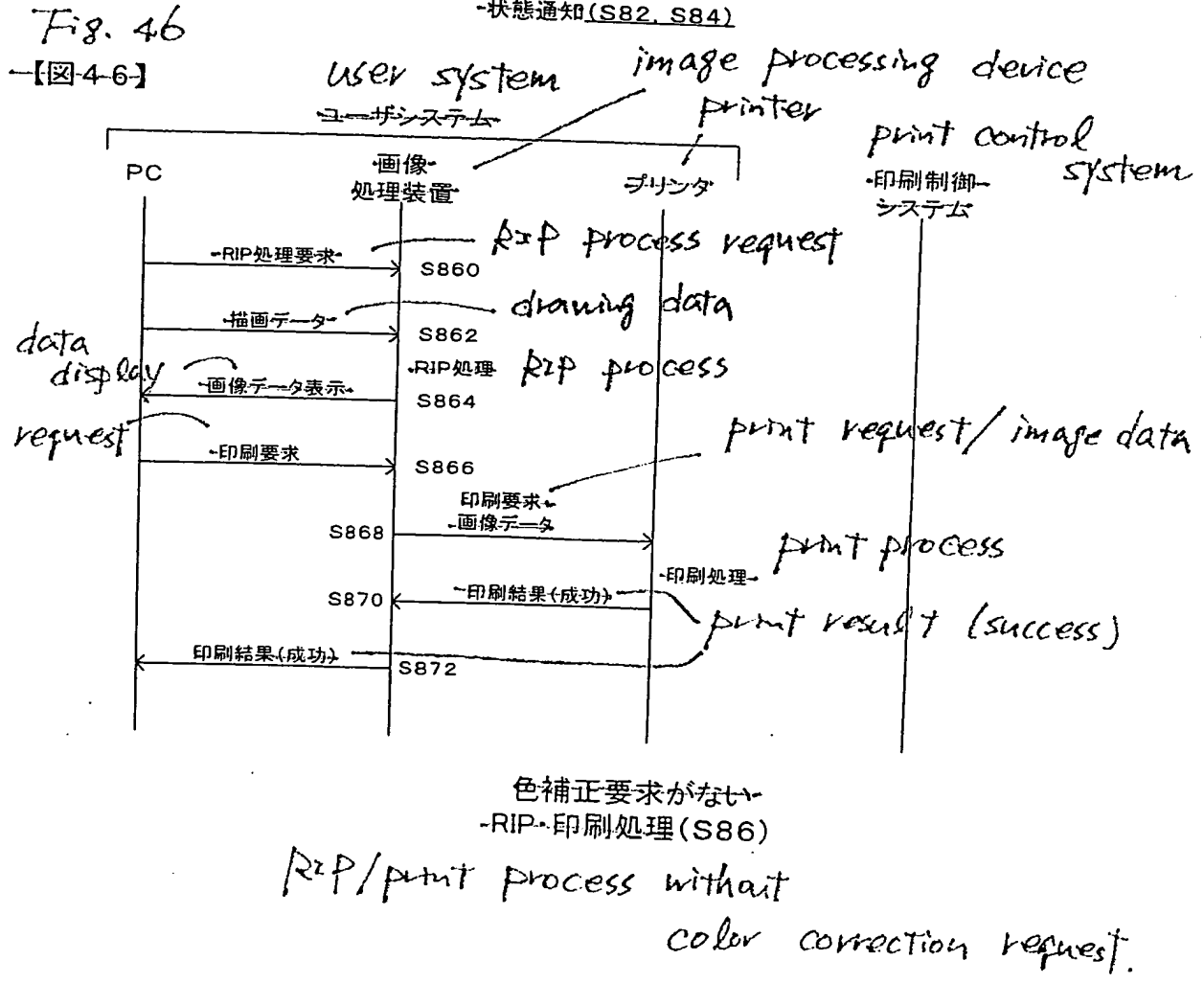
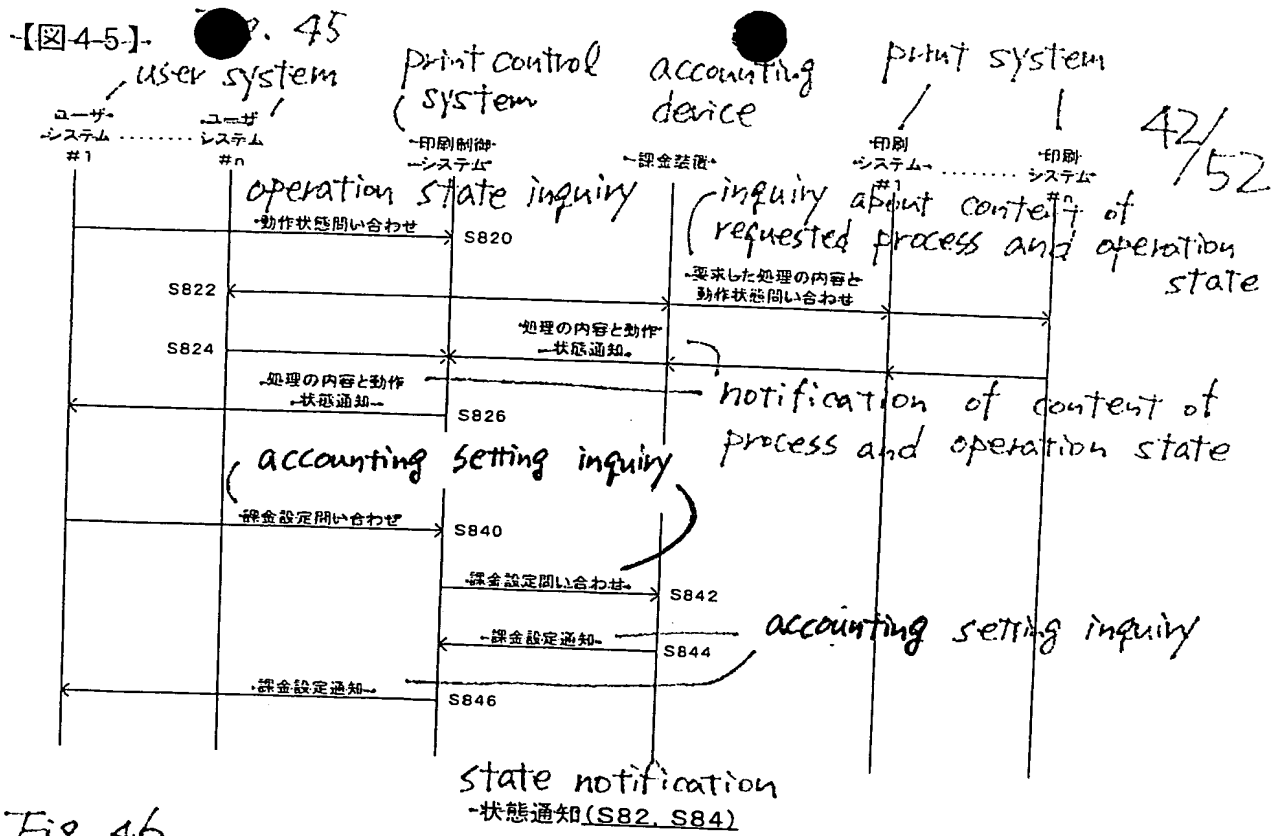
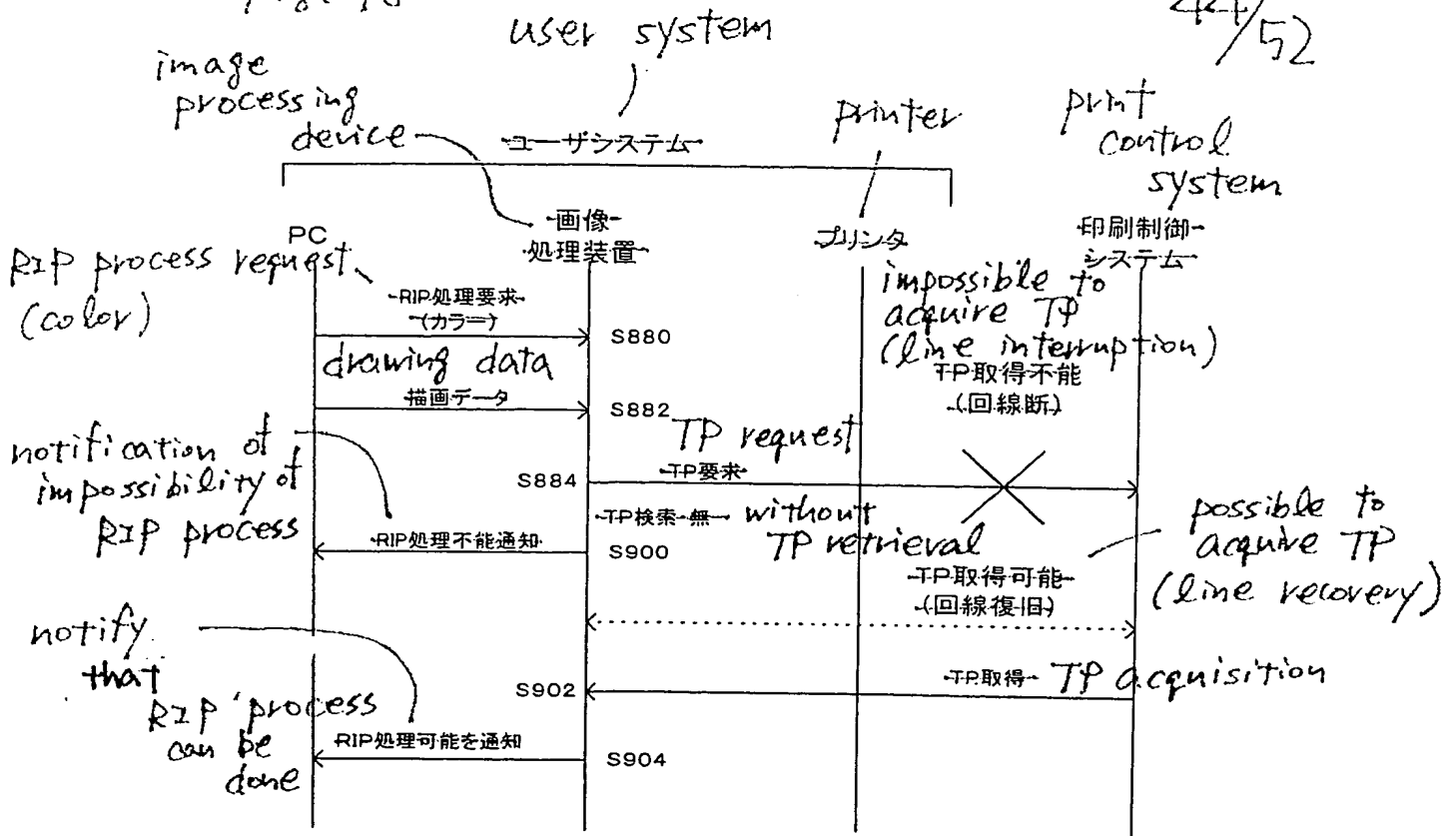


Fig. 48

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-色補正要求がある
カラ- RIP-印刷処理 (S90)
color RIP/print process
with color correction request

Fig. 49

45/52

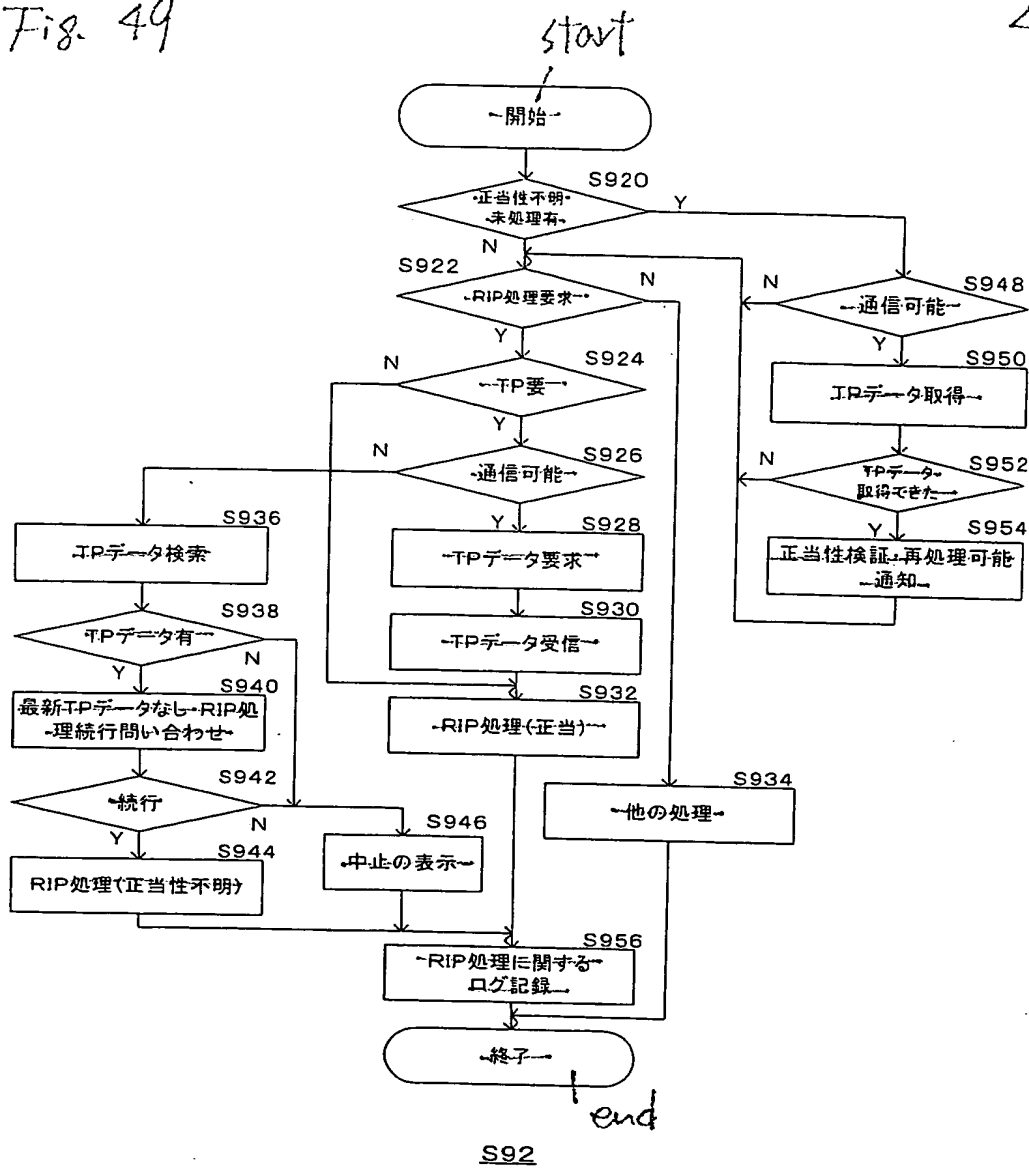
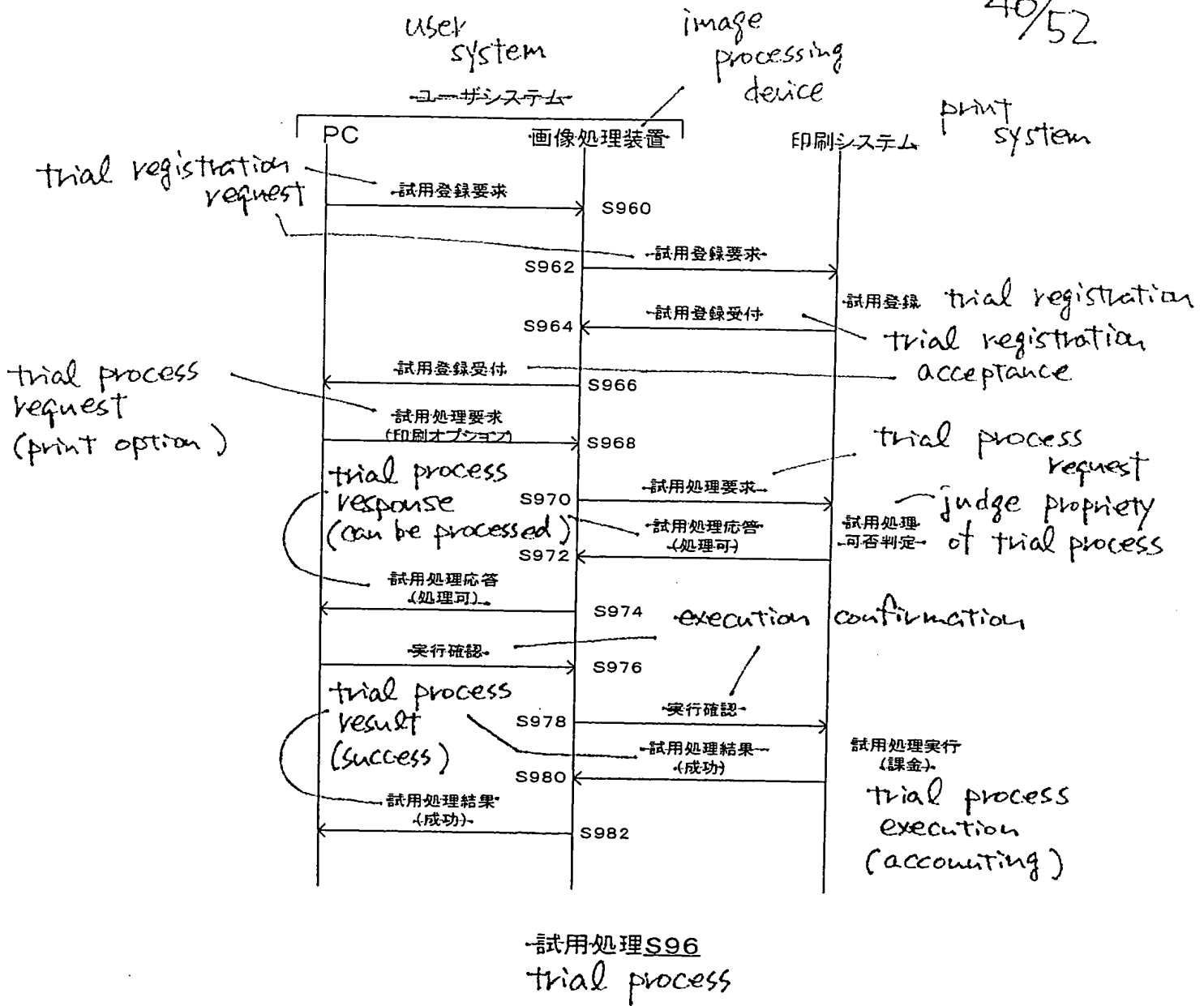


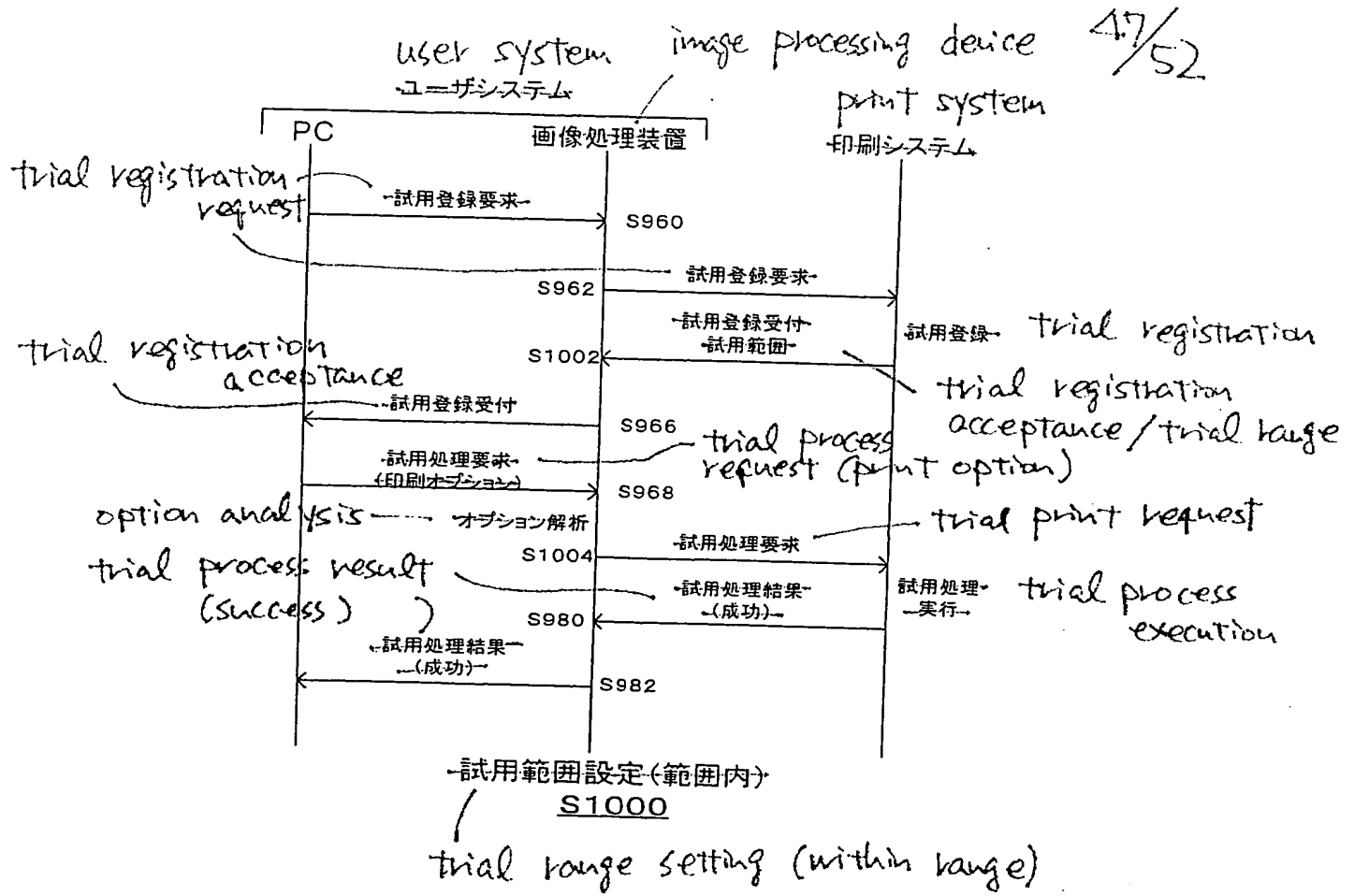
Fig. 49

S920 VALIDITY IS UNKNOWN / THERE IS UNPROCESSED?
S922 RIP PROCESS IS REQUESTED?
S924 TP IS NECESSARY?
S926 COMMUNICATABLE?
S928 REQUEST TP DATA
S930 RECEIVE TP DATA
S932 RIP PROCESS (VALID)
S934 OTHER PROCESSES
S936 RETRIEVE TP DATA
S938 TP DATA EXISTS?
S940 THERE ISN'T LATEST TP DATA/ INQUIRE CONTINUATION OF RIP
PROCESS
S942 CONTINUE?
S944 RIP PROCESS (VALIDITY UNKNOWN)
S946 DISPLAY TERMINATION
S948 COMMUNICATABLE?
S950 ACQUIRE TP DATA
S952 TP DATA IS ACQUIRED?
S954 VERIFY VALIDITY / NOTIFY RE-PROCESSABLE
S956 RECORD LOG ON RIP PROCESS



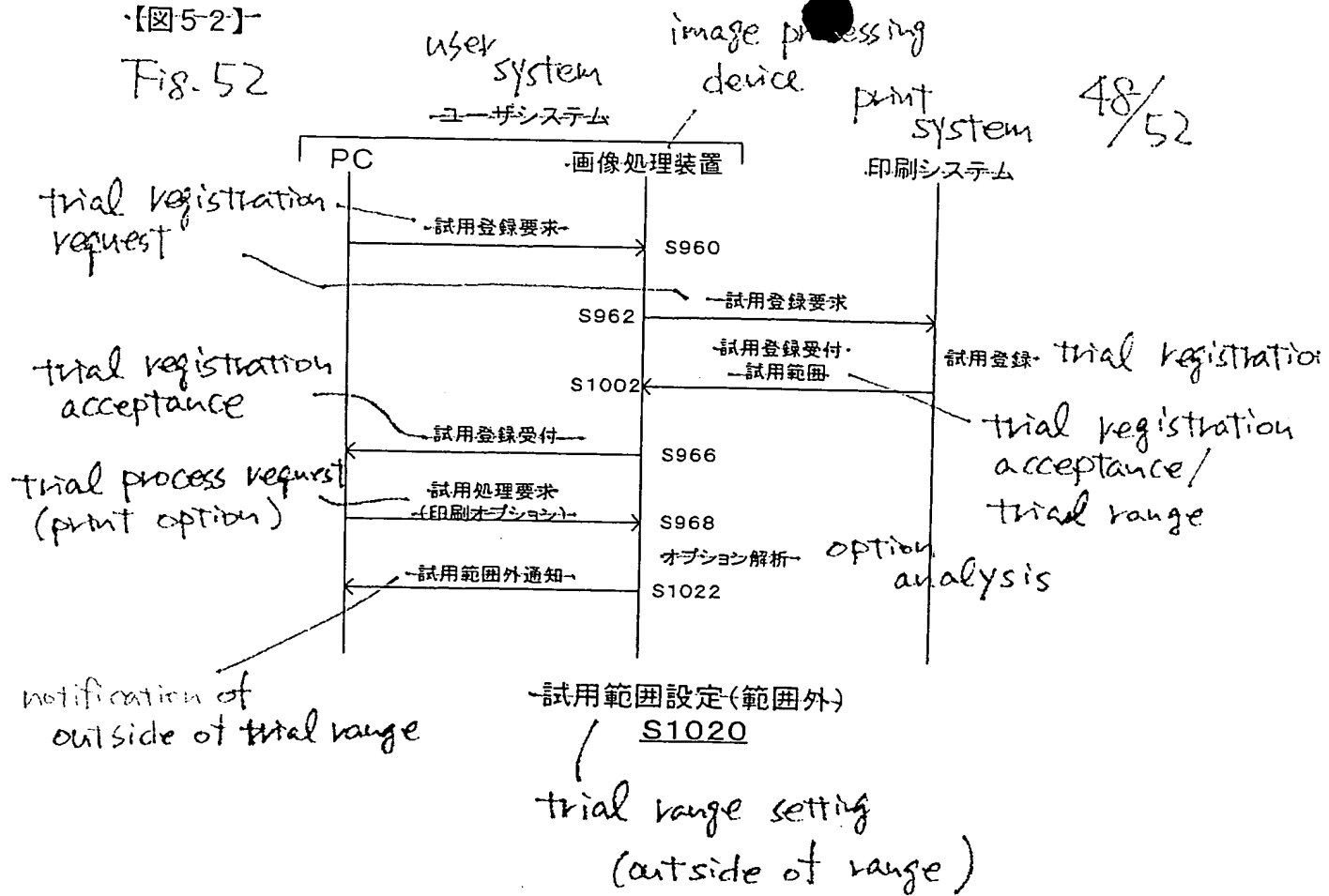
・【図5-1】・

Fig. 51



・[図5-2]・

Fig. 52



・[図5-3]・

Fig. 53 (user system image processing device

advertiser 49/52
(system

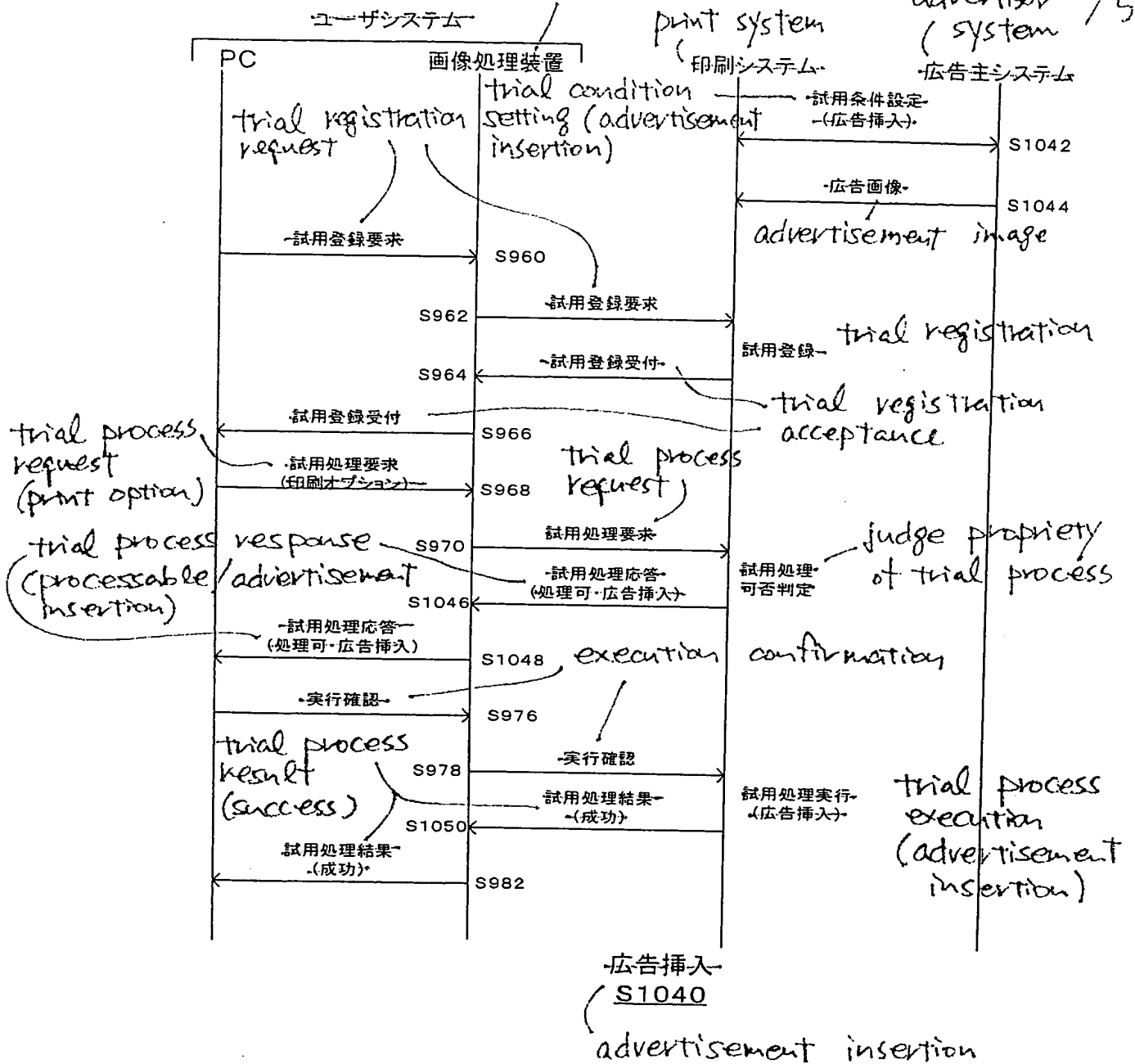
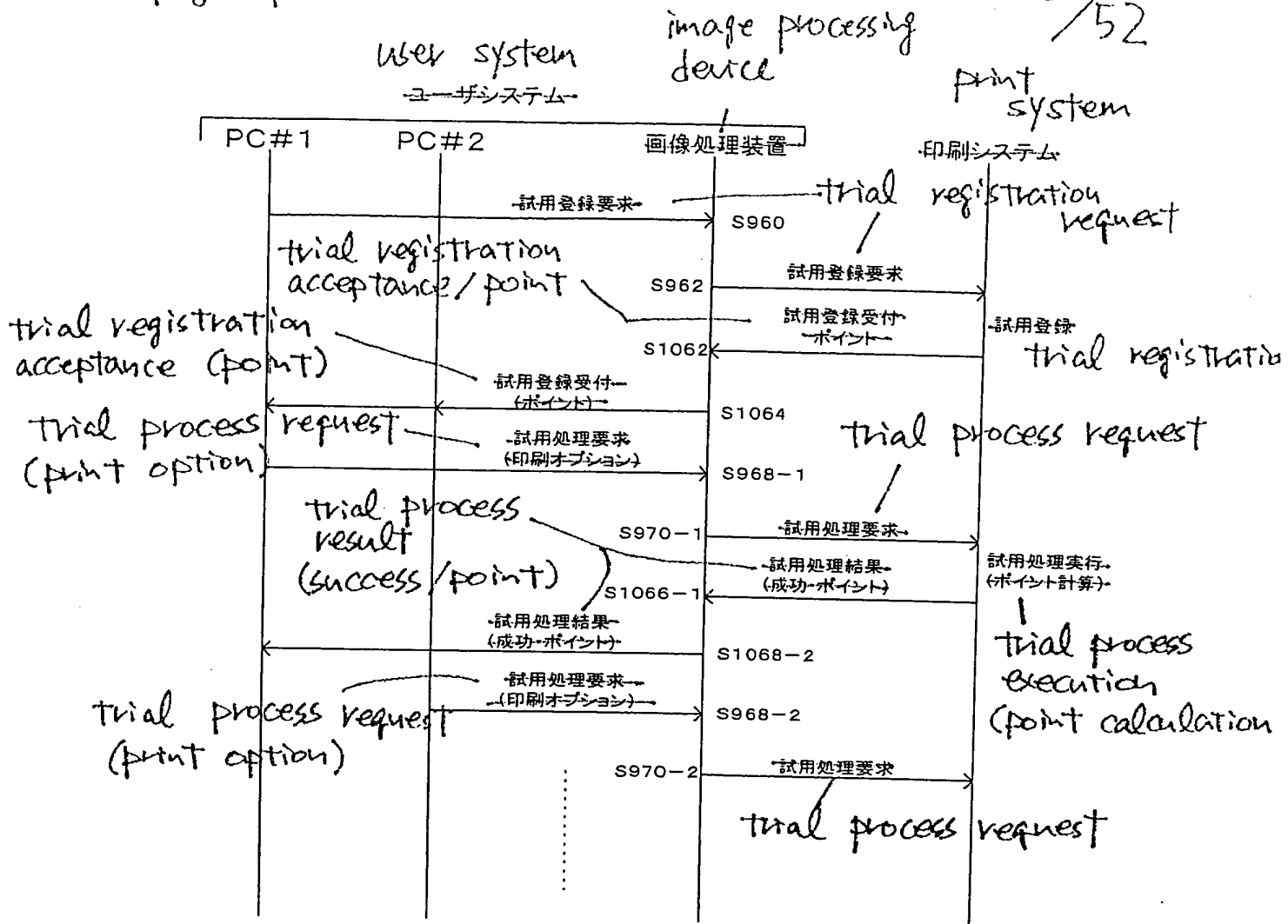


Fig. 54

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ポイント制(ポイント有)

S1060

point system (with point)

Fig. 55

image processing

user system

device

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ユーザシステム

print system

印刷システム

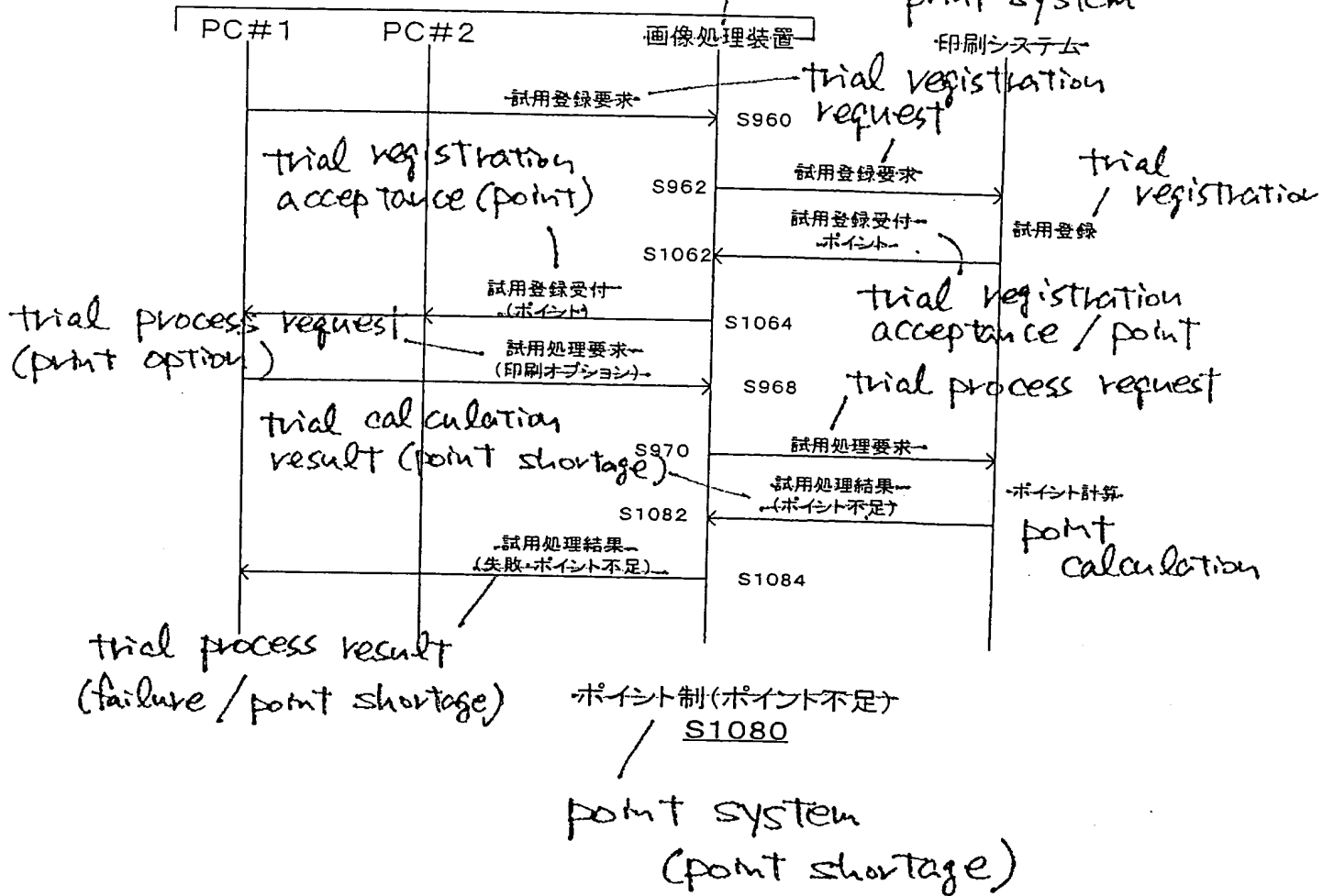


Fig. 56

image processing device

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user system

print system

